

Materials Analytical Services Inc.
 3597 Parkway Lane, Suite 250
 Norcross, Georgia 30092
 (404) 448-3200

TEM ASBESTOS ANALYSIS REPORT

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	10	Filter Type:	47MM
MAS Log Number:	M2140-10	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	10
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8171
Microscopist:	<i>[Signature]</i>	Tot Area Examined:	81710
Reviewed By:	<i>[Signature]</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:10

	Area Examined		Structures	
	< 5 um	>= 5 um	< 5 um	>= 5 um
No. Free Chrysotile Fibers:	16	1	2.624E+06	1.640E+05
No. of Chrysotile Bundles:	4	0	6.560E+05	0.000E+00
No. of Chrysotile Clusters:	1	0	1.640E+05	0.000E+00
No. of Chrysotile Matrices:	3	1	4.920E+05	1.640E+05
No. Free Amphibole Fibers:	0	0	0.000E+00	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00
Total Asbestos Structures/1 sq ft (All)	:		4.264E+06	
Total Asbestos Structures/1 sq ft (>= 5 um):	:		3.280E+05	

Comments:

* The Detection Limit is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Detection Limit

Materials Analytical Services Inc.

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Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	10	Filter Type:	47MM
MAS Log Number:	M2140-10	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	10
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8171
Microscopist:	<i>W.P. Smith / C. Hamner</i>	Tot Area Examined:	81710
Reviewed By:	<i>W. Hamner</i>	Magnification:	15414X
Client Proj/ref:	A8120.18	Dilution Factor:	1:10

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
1	1-1	c	f	1.50	0.10
2		c	f	2.20	0.10
3	1-2	c	f	2.80	0.10
4		c	b	2.20	0.20
5		c	f	2.00	0.10
6		c	f	2.80	0.10
7	1-3	c	f	10.00	0.10
8	1-4	c	f	2.50	0.10
9		c	f	4.50	0.10
10	1-5	c	f	3.20	0.10
11		c	f	2.00	0.10
12	2-1	c	f	1.00	0.10
13		c	m	5.00	0.70
14		c	f	1.00	0.15
15		c	b	1.00	0.20
16		c	b	1.00	0.20
17		c	m	3.00	0.70
18	2-2	c	b	2.50	0.60
19		c	f	1.10	0.10
20		c	c	3.00	0.80
21	2-3	c	f	2.30	0.15
22	2-4	c	f	1.00	0.10
23	2-5	c	f	1.90	0.15
24		c	f	3.00	0.15
25		c	m	1.50	0.30
26		c	m	3.00	0.30

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TEM ASBESTOS ANALYSIS REPORT

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	11	Filter Type:	47MM
MAS Log Number:	M2140-11	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	1
Sample Due Date:		Grids Examined:	1
Type Analysis:	DUST	Avg Area of Grid:	8099
Microscopist:	<i>John H. ...</i>	Tot Area Examined:	8099
Reviewed By:	<i>D. ...</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:500

	Area Examined		Structures	
	< 5 um	>= 5 um	< 5 um	>= 5 um
No. Free Chrysotile Fibers:	67	32	5.543E+09	2.647E+09
No. of Chrysotile Bundles:	4	5	3.309E+08	4.136E+08
No. of Chrysotile Clusters:	2	3	1.655E+08	2.482E+08
No. of Chrysotile Matrices:	5	6	4.136E+08	4.964E+08
No. Free Amphibole Fibers:	0	0	0.000E+00	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00
Total Asbestos Structures/1 sq ft (All) : 1.026E+10				
Total Asbestos Structures/1 sq ft (>= 5 um): 3.805E+09				

Comments:

* The Detection Limit is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Detection Limit

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Client LAW-Kennesaw
 Sample ID: 11
 MAS Log Number: M2140-11
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: Al Hassan
 Reviewed By: Al Hassan
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 1
 Grids Examined: 1
 Avg Area of Grid: 8099
 Tot Area Examined: 8099
 Magnification: 15414X
 Dilution Factor: 1:500

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
1	1-1	c	f	1.00	0.10
2		c	f	2.50	0.10
3		c	f	15.00	0.10
4		c	f	18.00	0.10
5		c	f	3.00	0.10
6		c	f	3.50	0.10
7		c	f	2.20	0.10
8		c	f	5.00	0.10
9		c	f	4.00	0.10
10		c	f	5.50	0.10
11		c	f	2.50	0.10
12		c	c	6.00	3.50
13		c	f	2.50	0.10
14		c	f	2.00	0.10
15		c	m	8.00	6.50
16		c	f	2.20	0.10
17		c	f	3.80	0.10
18		c	f	2.00	0.10
19		c	m	5.00	0.10
20		c	f	2.80	0.10
21		c	f	3.50	0.10
22		c	f	2.20	0.10
23		c	f	7.50	0.10
24		c	f	3.50	0.10
25		c	f	4.80	0.10
26		c	f	12.00	0.10
27		c	b	2.80	0.30
28		c	f	4.20	0.10
29		c	m	8.00	2.50
30		c	f	4.50	0.10
31		c	b	8.50	0.20
32		c	f	3.50	0.10
33		c	f	4.00	0.10
34		c	c	4.50	2.80
35		c	f	2.50	0.10

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Client LAW-Kennesaw
 Sample ID: 11
 MAS Log Number: M2140-11
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: Al Harrison
 Reviewed By: A. Harrison
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 1
 Grids Examined: 1
 Avg Area of Grid: 8099
 Tot Area Examined: 8099
 Magnification: 15414X
 Dilution Factor: 1:500

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
36		c	f	6.50	0.10
37		c	f	2.50	0.10
38		c	f	2.50	0.10
39		c	f	3.50	0.10
40		c	m	5.00	2.50
41		c	f	2.50	0.10
42		c	f	8.50	0.10
43		c	f	5.50	0.10
44		c	f	2.20	0.10
45		c	f	5.00	0.10
46		c	f	7.50	0.10
47		c	f	1.00	0.10
48		c	f	1.20	0.10
49		c	f	7.00	0.10
50		c	f	2.50	0.10
51		c	f	8.50	0.10
52		c	f	6.80	0.10
53		c	f	2.50	0.10
54		c	f	8.00	0.10
55		c	f	3.20	0.10
56		c	f	3.50	0.10
57		c	f	4.00	0.10
58		c	f	2.20	0.10
59		c	f	4.20	0.10
60		c	b	8.50	0.20
61		c	m	7.00	2.50
62		c	f	4.80	0.10
63		c	f	1.50	0.10
64		c	f	3.80	0.10
65		c	f	2.00	0.10
66		c	f	9.00	0.10
67		c	b	4.50	0.20
68		c	b	11.00	0.20
69		c	f	4.20	0.10
70		c	m	2.80	1.50

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Client LAW-Kennesaw
 Sample ID: 11
 MAS Log Number: M2140-11
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: DRH
 Reviewed By: DRH
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 1
 Grids Examined: 1
 Avg Area of Grid: 8099
 Tot Area Examined: 8099
 Magnification: 15414X
 Dilution Factor: 1:500

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
71		c	f	2.50	0.10
72		c	m	4.50	3.50
73		c	f	7.50	0.10
74		c	f	7.20	0.10
75		c	f	2.20	0.10
76		c	f	4.00	0.10
77		c	b	11.50	0.20
78		c	f	2.50	0.10
79		c	f	2.50	0.10
80		c	b	4.80	0.20
81		c	f	5.50	0.10
82		c	f	5.00	0.10
83		c	m	4.00	3.80
84		c	c	10.00	3.50
85		c	f	5.00	0.10
86		c	f	3.20	0.10
87		c	f	12.00	0.10
88		c	f	22.00	0.10
89		c	f	3.00	0.10
90		c	f	5.50	0.10
91		c	f	28.00	0.10
92		c	f	12.00	0.10
93		c	f	8.00	0.10
94		c	f	4.00	0.10
95		c	m	9.00	3.50
96		c	f	3.00	0.10
97		c	f	2.20	0.10
98		c	c	7.50	3.50
99		c	f	1.80	0.10
100		c	f	2.50	0.10
101		c	f	10.50	0.10
102		c	m	3.80	3.00
103		c	f	11.00	0.10
104		c	f	4.50	0.10
105		c	f	3.50	0.10

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Client LAW-Kennesaw
 Sample ID: 11
 MAS Log Number: M2140-11
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: John H. Harrison
 Reviewed By: John H. Harrison
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 1
 Grids Examined: 1
 Avg Area of Grid: 8099
 Tot Area Examined: 8099
 Magnification: 15414X
 Dilution Factor: 1:500

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
106		c	f	7.50	0.10
107		c	c	3.50	2.40
108		c	m	3.00	2.50
109		c	f	4.50	0.10
110		c	b	3.50	0.20
111		c	f	2.50	0.10
112		c	f	3.50	0.10
113		c	f	3.00	0.10
114		c	f	4.00	0.10
115		c	f	4.00	0.10
116		c	f	8.00	0.10
117		c	f	1.80	0.10
118		c	f	6.00	0.10
119		c	f	3.50	0.10
120		c	b	5.00	0.30
121		c	f	1.50	0.10
122		c	f	1.80	0.10
123		c	f	2.50	0.10
124		c	f	2.80	0.10

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TEM ASBESTOS ANALYSIS REPORT

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	12	Filter Type:	47MM
MAS Log Number:	M2140-12	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	8
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8638
Microscopist:	<i>2/6 P. Smith</i>	Tot Area Examined:	69104
Reviewed By:	<i>A. D. Harris</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:200

	Area Examined		Structures	
	< 5 um	>= 5 um	< 5 um	>= 5 um
No. Free Chrysotile Fibers:	60	18	2.327E+08	6.981E+07
No. of Chrysotile Bundles:	5	2	1.939E+07	7.756E+06
No. of Chrysotile Clusters:	3	0	1.163E+07	0.000E+00
No. of Chrysotile Matrices:	11	1	4.266E+07	3.878E+06
No. Free Amphibole Fibers:	0	0	0.000E+00	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00

Total Asbestos Structures/1 sq ft (All) : 3.878E+08
 Total Asbestos Structures/1 sq ft (>= 5 um): 8.144E+07

Comments:

* The Detection Limit is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Detection Limit

Materials Analytical Services Inc.

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Client LAW-Kennesaw
 Sample ID: 12
 MAS Log Number: M2140-12
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: *W.P. Smith*
 Reviewed By: *A. Harrison*
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 8
 Grids Examined: 2
 Avg Area of Grid: 8638
 Tot Area Examined: 69104
 Magnification: 15414X
 Dilution Factor: 1:200

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
1	1-1	c	b	1.70	0.15
2		c	m	1.80	1.00
3		c	f	2.50	0.10
4		c	f	1.80	0.10
5		c	f	5.00	0.10
6		c	f	1.30	0.10
7		c	f	3.00	0.15
8		c	b	1.70	0.20
9		c	f	1.00	0.10
10		c	f	1.90	0.10
11	1-2	c	f	6.50	0.10
12		c	f	2.00	0.10
13		c	f	1.30	0.10
14		c	f	24.00	0.10
15		c	f	1.00	0.10
16		c	m	4.00	1.00
17		c	f	4.00	0.20
18		c	f	4.50	0.10
19		c	f	6.50	0.10
20		c	f	32.00	0.10
21		c	m	1.00	0.30
22		c	m	4.50	1.50
23	1-3	c	f	1.00	0.10
24		c	f	0.80	0.05
25		c	b	3.50	0.15
26		c	f	3.50	0.10
27		c	f	1.10	0.10
28		c	b	14.00	0.60
29		c	f	3.50	0.10
30		c	f	0.80	0.05
31		c	f	3.00	0.10
32		c	m	0.90	0.40
33		c	f	0.80	0.05
34		c	f	9.00	0.10
35		c	f	20.00	0.20

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Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	12	Filter Type:	47MM
MAS Log Number:	M2140-12	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	8
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8638
Microscopist:	<i>W.P. Smith</i>	Tot Area Examined:	69104
Reviewed By:	<i>Al Harrison</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:200

Struc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
36		c	f	1.50	0.15
37		c	f	1.20	0.10
38		c	b	4.50	0.40
39		c	f	5.10	0.10
40		c	f	1.00	0.05
41	1-4	c	f	4.50	0.20
42		c	c	3.50	0.80
43		c	m	1.30	0.60
44		c	f	12.00	0.15
45		c	m	2.00	0.60
46		c	f	6.00	0.20
47		c	c	2.00	0.60
48		c	f	0.80	0.10
49		c	f	9.00	0.20
50		c	f	1.90	0.15
51		c	f	1.40	0.15
52	1-5	c	f	0.80	0.10
53		c	f	1.20	0.10
54		c	b	1.20	0.20
55		c	c	1.50	0.30
56		c	f	0.80	0.10
57		c	f	30.00	0.15
58	2-1	c	f	1.30	0.10
59		c	f	4.00	0.15
60		c	f	1.80	0.10
61		c	f	1.20	0.15
62		c	f	1.90	0.10
63		c	f	40.00	0.15
64		c	f	1.00	0.05
65		c	f	3.50	0.10
66		c	f	4.00	0.10
67		c	f	1.00	0.05
68		c	f	1.20	0.10
69		c	f	1.40	0.05
70		c	f	2.00	0.10

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Client LAW-Kennesaw
 Sample ID: 12
 MAS Log Number: M2140-12
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: W.P. Smith
 Reviewed By: W.P. Smith
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 8
 Grids Examined: 2
 Avg Area of Grid: 8638
 Tot Area Examined: 69104
 Magnification: 15414X
 Dilution Factor: 1:200

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
71		c	f	6.00	0.10
72		c	f	3.50	0.10
73		c	f	1.50	0.10
74		c	f	1.50	0.20
75	2-2	c	f	2.20	0.10
76		c	f	0.80	0.10
77		c	f	1.20	0.10
78		c	f	0.90	0.10
79		c	f	4.00	0.10
80		c	m	2.00	0.40
81		c	b	5.50	0.30
82		c	f	2.20	0.10
83	2-3	c	m	2.00	0.30
84		c	f	0.80	0.10
85		c	m	1.20	0.05
86		c	f	29.00	0.10
87		c	f	2.50	0.10
88		c	f	8.50	0.20
89		c	f	2.10	0.15
90		c	f	2.20	0.20
91		c	f	1.90	0.10
92		c	f	1.00	0.10
93		c	f	1.50	0.10
94		c	f	1.00	0.10
95		c	f	1.00	0.10
96		c	m	4.00	0.30
97		c	f	1.50	0.15
98		c	f	7.50	0.20
99		c	f	23.00	0.20
100		c	m	13.00	0.20

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TEM ASBESTOS ANALYSIS REPORT

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	13	Filter Type:	47MM
MAS Log Number:	M2140-13	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	5
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8464
Microscopist:	<i>Al Harrison</i>	Tot Area Examined:	42320
Reviewed By:	<i>Deanne</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:200

	Area Examined		Structures	
	< 5 um	>= 5 um	< 5 um	>= 5 um
No. Free Chrysotile Fibers:	63	8	3.990E+08	5.066E+07
No. of Chrysotile Bundles:	6	2	3.800E+07	1.267E+07
No. of Chrysotile Clusters:	2	1	1.267E+07	6.333E+06
No. of Chrysotile Matrices:	9	3	5.699E+07	1.900E+07
No. Free Amphibole Fibers:	0	0	0.000E+00	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00
Total Asbestos Structures/1 sq ft (All)	:		5.953E+08	
Total Asbestos Structures/1 sq ft (>= 5 um):			8.866E+07	

Comments:

* The Detection Limit is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Detection Limit

Materials Analytical Services Inc.

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Client LAW-Kennesaw
 Sample ID: 13
 MAS Log Number: M2140-13
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: *Glenn Harrison*
 Reviewed By: *H. J. Jernat*
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 5
 Grids Examined: 2
 Avg Area of Grid: 8464
 Tot Area Examined: 42320
 Magnification: 15414X
 Dilution Factor: 1:200

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
1	1-1	c	f	2.50	0.10
2		c	f	6.50	0.10
3		c	m	4.50	3.50
4		c	f	2.50	0.10
5		c	f	1.80	0.10
6		c	c	12.00	4.50
7		c	m	5.00	2.80
8		c	f	1.50	0.10
9		c	f	1.20	0.10
10		c	m	2.80	1.60
11		c	f	1.50	0.10
12		c	m	4.50	3.80
13		c	f	3.00	0.10
14		c	f	1.80	0.10
15		c	m	2.20	0.80
16		c	m	5.00	3.80
17		c	f	3.80	0.10
18		c	f	1.50	0.10
19		c	f	2.50	0.10
20		c	f	4.50	0.10
21		c	m	18.00	9.50
22		c	f	1.50	0.10
23		c	f	4.50	0.10
24		c	f	1.00	0.10
25	1-2	c	f	2.50	0.10
26		c	f	1.80	0.10
27		c	f	2.50	0.10
28		c	b	2.80	0.20
29		c	f	2.40	0.10
30		c	f	2.20	0.10
31		c	f	3.50	0.10
32		c	f	2.20	0.10
33		c	b	3.00	0.10
34	1-3	c	f	11.00	0.10
35		c	f	2.80	0.10

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Client LAW-Kennesaw
 Sample ID: 13
 MAS Log Number: M2140-13
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: *Albano*
 Reviewed By: *J. J. J.*
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 5
 Grids Examined: 2
 Avg Area of Grid: 8464
 Tot Area Examined: 42320
 Magnification: 15414X
 Dilution Factor: 1:200

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
36		c	b	8.00	0.20
37		c	f	6.00	0.10
38		c	f	2.50	0.10
39		c	f	2.80	0.10
40		c	f	1.80	0.10
41		c	c	4.50	2.50
42		c	f	1.00	0.10
43		c	f	1.20	0.10
44		c	f	4.00	0.10
45		c	m	3.50	3.00
46		c	f	1.50	0.10
47		c	f	3.00	0.10
48		c	f	3.40	0.10
49		c	b	2.50	0.20
50		c	f	5.20	0.10
51		c	f	1.20	0.10
52		c	f	2.00	0.10
53		c	f	2.20	0.10
54		c	b	2.80	0.20
55		c	m	4.50	2.50
56		c	f	5.50	0.10
57		c	f	2.80	0.10
58		c	f	1.50	0.10
59		c	f	2.60	0.10
60		c	f	1.80	0.10
61	2-1	c	f	1.50	0.10
62		c	f	3.50	0.10
63		c	f	3.00	0.10
64		c	f	3.80	0.10
65		c	f	1.50	0.10
66		c	f	1.20	0.10
67		c	f	3.00	0.10
68		c	f	2.50	0.10
69		c	c	4.50	2.50
70		c	b	2.50	0.20

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Client LAW-Kennesaw
 Sample ID: 13
 MAS Log Number: M2140-13
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: Al Heger
 Reviewed By: H. Heger
 Client Proj/ref: A88420.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 5
 Grids Examined: 2
 Avg Area of Grid: 8464
 Tot Area Examined: 42320
 Magnification: 15414X
 Dilution Factor: 1:200

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
71		c	f	3.50	0.10
72		c	b	8.50	0.30
73		c	m	3.20	1.50
74		c	f	4.50	0.10
75	2-2	c	f	1.20	0.10
76		c	f	2.20	0.10
77		c	f	1.80	0.10
78		c	f	2.00	0.10
79		c	f	1.50	0.10
80		c	f	3.50	0.10
81		c	b	3.50	0.40
82		c	f	3.20	0.10
83		c	f	6.00	0.10
84		c	f	2.20	0.10
85		c	f	3.20	0.10
86		c	f	1.00	0.10
87		c	m	1.50	0.50
88		c	f	12.00	0.10
89		c	f	1.80	0.10
90		c	f	3.50	0.10
91		c	f	2.50	0.10
92		c	f	7.50	0.10
93		c	f	2.50	0.10
94		c	m	3.50	2.00

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TEM ASBESTOS ANALYSIS REPORT

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	14	Filter Type:	47MM
MAS Log Number:	M2140-14	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	10
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	7965
Microscopist:	<i>Q. J. Harrison</i>	Tot Area Examined:	79650
Reviewed By:	<i>A. J. Gerneth</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:50

	Area Examined		Structures	
	< 5 um	>= 5 um	< 5 um	>= 5 um
No. Free Chrysotile Fibers:	38	16	3.196E+07	1.346E+07
No. of Chrysotile Bundles:	2	2	1.682E+06	1.682E+06
No. of Chrysotile Clusters:	2	1	1.682E+06	8.412E+05
No. of Chrysotile Matrices:	1	0	8.412E+05	0.000E+00
No. Free Amphibole Fibers:	0	0	0.000E+00	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00
Total Asbestos Structures/1 sq ft (All)	:		5.215E+07	
Total Asbestos Structures/1 sq ft (>= 5 um):	:		1.598E+07	

Comments:

* The Detection Limit is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Detection Limit

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Client LAW-Kennesaw
 Sample ID: 14
 MAS Log Number: M2140-14
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: Al Hanner
 Reviewed By: H. Janate
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 10
 Grids Examined: 2
 Avg Area of Grid: 7965
 Tot Area Examined: 79650
 Magnification: 15414X
 Dilution Factor: 1:50

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
1	1-1	c	f	8.50	0.10
2		c	f	1.20	0.10
3		c	f	2.00	0.10
4		c	f	4.80	0.10
5		c	f	2.50	0.10
6		c	f	2.80	0.10
7		c	f	8.50	0.10
8	1-2	c	f	2.00	0.10
9		c	f	2.80	0.10
10		c	f	5.50	0.10
11		c	f	5.80	0.10
12	1-3	c	f	2.50	0.10
13		c	c	3.00	1.50
14		c	m	3.80	2.50
15		c	f	6.50	0.10
16	1-4	c	f	2.50	0.10
17		c	f	3.00	0.10
18		c	f	1.20	0.10
19		c	f	2.00	0.10
20		c	f	2.50	0.10
21		c	f	2.80	0.10
22		c	f	1.80	0.10
23	1-5	c	f	2.00	0.10
24		c	f	1.00	0.10
25		c	f	3.00	0.10
26		c	f	2.50	0.10
27		c	f	4.50	0.10
28		c	f	1.80	0.10
29	2-1	c	f	7.50	0.10
30		c	b	2.50	0.20
31		c	b	3.00	0.20
32		c	b	5.50	0.30
33		c	f	3.50	0.10
34		c	f	5.00	0.10
35	2-2	c	f	8.00	0.10

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Client LAW-Kennesaw
 Sample ID: 14
 MAS Log Number: M2140-14
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: ALH
 Reviewed By: ALH
 Client Proj/ref: A88/20.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 10
 Grids Examined: 2
 Avg Area of Grid: 7965
 Tot Area Examined: 79650
 Magnification: 15414X
 Dilution Factor: 1:50

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
36		c	c	4.00	2.00
37		c	f	4.50	0.10
38		c	f	2.00	0.10
39		c	f	1.50	0.10
40	2-3	c	f	6.00	0.10
41		c	f	5.50	0.10
42		c	f	2.80	0.10
43		c	f	2.20	0.10
44		c	f	4.50	0.10
45	2-4	c	f	3.00	0.10
46		c	f	2.20	0.10
47		c	f	6.50	0.10
48		c	f	6.80	0.10
49		c	f	2.80	0.10
50		c	f	4.50	0.10
51	2-5	c	f	12.00	0.10
52		c	f	2.50	0.10
53		c	f	6.50	0.10
54		c	f	7.50	0.10
55		c	f	3.50	0.10
56		c	f	2.20	0.10
57		c	f	6.00	0.10
58		c	f	2.20	0.10
59		c	f	4.00	0.10
60		c	b	9.50	0.20
61		c	c	11.00	7.00
62		c	f	2.00	0.10

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TEM ASBESTOS ANALYSIS REPORT

Client	LAW-Kennesaw	Sample Area	0.375 sq ft
Sample ID:	15	Filter Type:	47MM
MAS Log Number:	M2140-15	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	2
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8711
Microscopist:	<i>W.P. Smith</i>	Tot Area Examined:	17422
Reviewed By:	<i>Al Harrison</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:1000

	Area Examined		Structures	
	< 5 um	>= 5 um	< 5 um	>= 5 um
No. Free Chrysotile Fibers:	13	1	2.666E+09	2.051E+08
No. of Chrysotile Bundles:	0	0	0.000E+00	0.000E+00
No. of Chrysotile Clusters:	2	1	4.102E+08	2.051E+08
No. of Chrysotile Matrices:	27	49	5.538E+09	1.005E+10
No. Free Amphibole Fibers:	0	0	0.000E+00	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00

Total Asbestos Structures/1 sq ft (All) : 1.907E+10
 Total Asbestos Structures/1 sq ft (>= 5 um): 1.046E+10

Comments:

* The Detection Limit is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Detection Limit

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Client LAW-Kennesaw
 Sample ID: 15
 MAS Log Number: M2140-15
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: *W.P. Smith*
 Reviewed By: *Al Harmon*
 Client Proj/ref: A88120.18

Sample Area 0.375 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 2
 Grids Examined: 2
 Avg Area of Grid: 8711
 Tot Area Examined: 17422
 Magnification: 15414X
 Dilution Factor: 1:1000

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
1	1-1	c	m	8.50	1.00
2		c	m	7.00	0.70
3		c	m	7.00	3.00
4		c	m	12.00	0.60
5		c	m	7.00	7.00
6		c	m	26.00	0.10
7		c	m	14.00	5.00
8		c	m	8.50	1.00
9		c	m	5.00	2.00
10		c	c	1.20	0.80
11		c	f	3.50	0.10
12		c	m	7.50	2.00
13		c	m	3.50	2.00
14		c	m	9.50	2.50
15		c	m	30.00	7.00
16		c	m	3.50	1.00
17		c	m	13.00	1.50
18		c	m	28.00	0.60
19		c	m	25.00	1.20
20		c	m	14.00	7.00
21		c	m	2.20	0.40
22		c	m	5.00	1.00
23		c	m	4.00	1.00
24		c	m	10.00	1.00
25		c	m	25.00	25.00
26		c	f	7.00	0.20
27		c	f	3.00	0.20
28		c	m	18.00	6.00
29		c	m	5.00	1.00
30		c	m	27.00	3.50
31		c	m	1.50	0.30
32		c	m	1.20	0.30
33		c	m	4.00	1.00
34		c	m	7.50	7.50
35		c	m	20.00	4.00

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Client LAW-Kennesaw
 Sample ID: 15
 MAS Log Number: M2140-15
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: *W. P. Smith*
 Reviewed By: *W. P. Smith*
 Client Proj/ref: A88120.18

Sample Area 0.375 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 2
 Grids Examined: 2
 Avg Area of Grid: 8711
 Tot Area Examined: 17422
 Magnification: 15414X
 Dilution Factor: 1:1000

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
36		c	m	10.00	6.00
37		c	m	4.00	1.00
38		c	m	4.00	3.50
39		c	m	2.00	1.00
40		c	m	3.00	0.60
41		c	m	14.00	7.00
42		c	m	13.00	2.00
43		c	m	21.00	3.50
44		c	m	4.00	2.00
45		c	m	1.30	0.30
46		c	m	12.00	2.00
47		c	m	4.00	3.50
48		c	m	11.00	2.00
49		c	m	10.00	2.00
50	2-1	c	m	3.50	0.80
51		c	m	9.50	2.00
52		c	m	5.50	2.00
53		c	m	10.50	2.00
54		c	m	35.00	17.00
55		c	f	1.10	0.10
56		c	m	4.50	1.00
57		c	m	7.00	3.50
58		c	m	1.90	0.60
59		c	c	4.00	0.15
60		c	m	5.00	0.60
61		c	m	16.00	5.00
62		c	f	2.50	0.10
63		c	f	1.20	0.10
64		c	m	40.00	7.00
65		c	m	4.00	1.00
66		c	m	14.00	3.00
67		c	f	1.90	0.10
68		c	f	0.80	0.10
69		c	m	7.00	0.60
70		c	m	4.50	1.50

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Client LAW-Kennesaw
 Sample ID: 15
 MAS Log Number: M2140-15
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: *W.P. Smith*
 Reviewed By: *A. Herman*
 Client Proj/ref: A88120.18

Sample Area 0.375 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 2
 Grids Examined: 2
 Avg Area of Grid: 8711
 Tot Area Examined: 17422
 Magnification: 15414X
 Dilution Factor: 1:1000

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
71		c	m	11.00	10.00
72		c	f	2.00	0.10
73		c	m	4.00	2.00
74		c	m	1.00	0.20
75		c	m	15.00	5.00
76		c	m	3.50	2.50
77		c	m	20.00	3.00
78		c	f	0.80	0.10
79		c	m	2.00	1.50
80		c	m	4.00	0.40
81		c	f	3.50	0.10
82		c	c	7.00	2.00
83		c	m	3.00	0.70
84		c	f	0.80	0.10
85		c	m	1.20	0.40
86		c	m	20.00	7.00
87		c	m	7.00	5.00
88		c	m	8.00	2.00
89		c	f	1.10	0.10
90		c	m	16.00	0.40
91		c	m	22.00	20.00
92		c	m	1.50	0.10
93		c	f	0.80	0.10

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TEM ASBESTOS ANALYSIS REPORT

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	16	Filter Type:	47MM
MAS Log Number:	M2140-16	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	10
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	9248
Microscopist:	<i>W. P. Smith</i>	Tot Area Examined:	92480
Reviewed By:	<i>A. H. Hume</i>	Magnification:	15414X
Client Proj/réf:	A88120.18	Dilution Factor:	1:50

	Area Examined		Structures	
	< 5 um	>= 5 um	< 5 um	>= 5 um
No. Free Chrysotile Fibers:	25	2	1.811E+07	1.449E+06
No. of Chrysotile Bundles:	5	1	3.622E+06	7.245E+05
No. of Chrysotile Clusters:	1	0	7.245E+05	0.000E+00
No. of Chrysotile Matrices:	3	2	2.173E+06	1.449E+06
No. Free Amphibole Fibers:	0	0	0.000E+00	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00
Total Asbestos Structures/1 sq ft (All)	:		2.825E+07	
Total Asbestos Structures/1 sq ft (>= 5 um):			3.622E+06	

Comments:

* The Detection Limit is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Detection Limit

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Client LAW-Kennesaw
 Sample ID: 16
 MAS Log Number: M2140-16
 Sample Received: 01-12-89
 Sample Due Date:
 Type Analysis: DUST
 Microscopist: *W. P. Smith*
 Reviewed By: *Althaus*
 Client Proj/ref: A88120.18

Sample Area 1.000 sq ft
 Filter Type: 47MM
 Filter Area: 1.34E+009
 Grid Openings: 10
 Grids Examined: 2
 Avg Area of Grid: 9248
 Tot Area Examined: 92480
 Magnification: 15414X
 Dilution Factor: 1:50

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
1	1-1	c	m	14.00	1.00
2		c	f	2.40	0.10
3		c	f	1.40	0.10
4		c	f	0.60	0.05
5		c	f	2.30	0.10
6		c	b	1.90	0.30
7	1-2	c	f	1.40	0.10
8		c	b	1.40	0.15
9		c	f	1.50	0.10
10		c	f	3.50	0.30
11		c	f	1.30	0.10
12	1-3	c	f	3.20	0.10
13		c	f	1.80	0.10
14		c	b	8.50	0.50
15	1-4	c	m	3.80	1.60
16		c	f	1.40	0.15
17		c	f	1.50	0.10
18		c	f	3.40	0.10
19		c	f	3.40	0.15
20	1-5	c	f	1.60	0.10
21		c	f	1.40	0.10
22		c	f	1.00	0.15
23	2-1	c	f	1.60	0.15
24		c	f	1.60	0.20
25	2-2	c	f	2.80	0.15
26		c	f	1.00	0.10
27		c	f	1.00	0.10
28		c	m	1.50	0.20
29	2-3	c	b	2.50	0.30
30		c	c	3.50	0.60
31		c	f	4.30	0.10
32		c	m	2.70	0.60
33		c	f	3.50	0.15
34		c	b	2.40	0.20
35	2-5	c	m	6.00	1.40

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Page: 2

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	16	Filter Type:	47MM
MAS Log Number:	M2140-16	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	10
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	9248
Microscopist:	<i>W.P. Smith</i>	Tot Area Examined:	92480
Reviewed By:	<i>Al. Hansen</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:50

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
36		c	f	5.50	0.10
37		c	b	3.50	0.15
38		c	f	4.00	0.10
39		c	f	26.00	0.10

Materials Analytical Services Inc.
 3597 Parkway Lane, Suite 250
 Norcross, Georgia 30092
 (404) 448-3200

TEM ASBESTOS ANALYSIS REPORT

Client:	LAW-Kennesaw	Sample Area:	1.000 sq ft
Sample ID:	17	Filter Type:	47MM
MAS Log Number:	M2140-17	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	10
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8858
Microscopist:	<i>W. P. Smith</i>	Tot Area Examined:	88580
Reviewed By:	<i>C. H. Warner</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:7

	Area Examined		Structures	
	< 5 um	>= 5 um	< 5 um	>= 5 um
No. Free Chrysotile Fibers:	1	0	1.009E+05	0.000E+00
No. of Chrysotile Bundles:	0	1	0.000E+00	1.009E+05
No. of Chrysotile Clusters:	0	0	0.000E+00	0.000E+00
No. of Chrysotile Matrices:	0	1	0.000E+00	1.009E+05
No. Free Amphibole Fibers:	0	0	0.000E+00	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00
Total Asbestos Structures/1 sq ft (All) : 3.026E+05				
Total Asbestos Structures/1 sq ft (>= 5 um): 2.017E+05				

Comments:

* The Detection Limit is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Detection Limit

Materials Analytical Services Inc.

Page: 1

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	17	Filter Type:	47MM
MAS Log Number:	M2140-17	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	10
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8858
Microscopist:	<i>W.P. Smith</i>	Tot Area Examined:	88580
Reviewed By:	<i>Al Hassan</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:7

Strc.	Grid Op	Type c,a	Structure f,b,c,m	Length Microns	Width Microns
1	1-2	c	b	17.00	1.40
2	2-3	c	m	5.00	0.30
3	2-4	c	f	3.50	0.20

Materials Analytical Services Inc.
 3597 Parkway Lane, Suite 250
 Norcross, Georgia 30092
 (404) 448-3200

TEM ASBESTOS ANALYSIS REPORT

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	18	Filter Type:	47MM
MAS Log Number:	M2140-18	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	10
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8418
Microscopist:	<i>W.P. Smith</i>	Tot Area Examined:	84180
Reviewed By:	<i>Al Harrison</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:50

	Area Examined		Structures	
	< 5 um	>= 5 um	< 5 um	>= 5 um
No. Free Chrysotile Fibers:	9	0	7.163E+06	0.000E+00
No. of Chrysotile Bundles:	1	0	7.959E+05	0.000E+00
No. of Chrysotile Clusters:	0	0	0.000E+00	0.000E+00
No. of Chrysotile Matrices:	0	0	0.000E+00	0.000E+00
No. Free Amphibole Fibers:	0	0	0.000E+00	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00

Total Asbestos Structures/1 sq ft (All) : 7.959E+06

Total Asbestos Structures/1 sq ft (>= 5 um): 0.000E+00

Comments:

* The Detection Limit is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

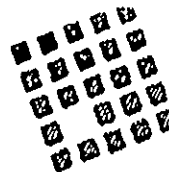
* 0.000 display = Below Detection Limit

Materials Analytical Services Inc.

Page: 1

Client	LAW-Kennesaw	Sample Area	1.000 sq ft
Sample ID:	18	Filter Type:	47MM
MAS Log Number:	M2140-18	Filter Area:	1.34E+009
Sample Received:	01-12-89	Grid Openings:	10
Sample Due Date:		Grids Examined:	2
Type Analysis:	DUST	Avg Area of Grid:	8418
Microscopist:	<i>W. P. Smith</i>	Tot Area Examined:	84180
Reviewed By:	<i>Al H. H. H.</i>	Magnification:	15414X
Client Proj/ref:	A88120.18	Dilution Factor:	1:50

Strc.	Grid Op	Type c, a	Structure f, b, c, m	Length Microns	Width Microns
1	1-1	c	f	1.90	0.10
2	1-2	c	f	2.20	0.10
3	1-3	c	f	1.60	0.10
4	1-5	c	b	1.90	0.30
5	2-1	c	f	1.00	0.10
6	2-3	c	f	1.40	0.10
7		c	f	4.30	0.15
8	2-4	c	f	3.00	0.10
9		c	f	0.60	0.10
10	2-5	c	f	1.50	0.10



MATERIALS
ANALYTICAL
SERVICES

CHAIN-OF-CUSTODY

Company: Law Assoc MAS Job No: 142140
Contact: Brian Southland Date: 1-12-89
Phone No: 892-3200 Client P.O.: ASS-120.18

TYPE OF ANALYSIS

TEM () Level I () LEVEL II () AHERA ()
WATER () DUST (X) BULK ()

OTHER: _____ Requested T.A.T.: _____

Due Date: _____

Sample Number(s): 2200 Bldg

2600 Bldg

- | | |
|----------------|----------------|
| 1) 9th Fl. | 11) 4th Fl. |
| 2) 9th Fl. | 12) 4th Fl. |
| 3) 6th Fl. | 13) 3rd Fl. |
| 4) 6th Fl. | 14) 3rd Fl. |
| 5) 5th Fl. | 15) Basement |
| 6) 5th Fl. | 16) Basement |
| 7) 4th Fl. | 17) 1st Fl. |
| 8) 3rd Fl. | 18) Sew. Elev. |
| 9) 2nd Fl. | 19) |
| 10) Main Lobby | 20) |

Samples Received By: P. Miller Date: 2-11-89

Condition of Samples: OK

Sample Preparation: J. Ayres F.R.C. Chem Date: 7-30-90

Sample Analysis: _____ Date: _____

Report(s) Sent By: Mailed / P. Dabbs Date: 10/11/90

Sample(s) Shipped By: Shipped by P. Dabbs Date: 5-16-91

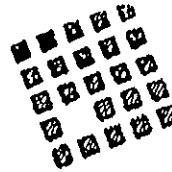
Samples Received By Client: _____

Date Received By Client: _____

(Please sign and return to MAS upon

3597 Parkway Lane • Suite 250
Norcross, Georgia 30092

COPY

MATERIALS
ANALYTICAL
SERVICES

CHAIN-OF-CUSTODY

Company: Law Assoc MAS Job No: 142140
 Contact: Brian Southerland Date: 1-12-89
 Phone No: 892-3200 Client P.O.: ASB-120.18

TYPE OF ANALYSIS

TEM () Level I () LEVEL II () AHERA ()
 WATER () DUST (X) BULK ()

OTHER: _____ Requested T.A.T.: _____

Due Date: _____

Sample Number(s): 2200 Bldg2600 Bldg

- | | |
|----------------|----------------|
| 1) 9th Fl. | 11) 4th Fl. |
| 2) 9th Fl. | 12) 4th Fl. |
| 3) 6th Fl. | 13) 3rd Fl. |
| 4) 6th Fl. | 14) 3rd Fl. |
| 5) 5th Fl. | 15) Basement |
| 6) 5th Fl. | 16) Basement |
| 7) 4th Fl. | 17) 1st Fl. |
| 8) 3rd Fl. | 18) Sew. Elev. |
| 9) 1st Fl. | 19) |
| 10) Main Lobby | 20) |

Samples Received By: P Miller Date: 1-12-89
 Condition of Samples: OK

Sample Preparation: G. Ayala F.B.I. Lab Date: 7-30-90
 Sample Analysis: Althausman, W.P. Smith Date: 8-23-90, 8-24-90, 8-27-90, 8-28-90, 8-29-90, 8-30-90, 8-31-90, 9-1-90, 9-2-90
 Report(s) Sent By: Nicholas W. Smith Date: 9-24-90
 Sample(s) Shipped By: _____ Date: _____

Samples Received By Client: _____
 Date Received By Client: _____

W. C. Sullivan

OF LAU ASSOCIATES

Date 2/12/89

Transferred to Materials Analytical Services

[illegible]

OF LAW ASSOCIATES

Date 01/12/89

Transferred to Materials Analytical Services

[illegible]

Table I
DUST SAMPLES
 2200 BUILDING
 CENTURY CENTER IV
 LAI PROJECT NUMBER 1188-2120.18

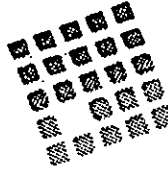
<u>SAMPLE NUMBER</u>	<u>LOCATION/DESCRIPTION</u>	<u>SAMPLE AREA</u>
✓ 1	Carpet Sample, Suite 90, File Storage Room Floor	12" X 12"
✓ 2	Dust Sample, Suite 90, File Storage Room Shelves	12" X 12"
✓ 3	Carpet Sample, Suite, 660 Paper Storage Room	12" X 12"
✓ 4	Dust Sample, Suite 650, Top of Kitchenette Cabinets	12" X 12"
✓ 5	Carpet Sample, 5th Floor Lobby Entrance to Men's Bathroom	6" X 24"
✓ 6	Dust Sample Suite 532, Top of Brown Phone Switching Box	5" X 24"
✓ 7	Dust Sample, 4th Floor Air Handler, Horizontal Surface above Intake Filters	4" X 24"
✓ 8	Dust Sample, 3rd Floor Air Handler, Horizontal Surface above Intake Filters	4" X 24"
✓ 9	Dust Sample, Suite 220, Top of Isotec Switchbox	12" X 12"
✓ 10	Carpet Sample, First Floor, Intersection of Elevator Lobby and Main Lobby	12" X 12"

* NOTE: All samples taken @ 1 liters/minute for 60 seconds.

TABLE A-1
DUST SAMPLES
2600 BUILDING
CENTURY CENTER IV
LAI PROJECT NUMBER 1188-2120.18

<u>Sample Number</u>	<u>Location/Description</u>	<u>Sample Area</u>
1	Dust Sample, Fourth Floor South Center Room, Back of Ceiling Tile	12" X 12"
2	Dust Sample, Fourth Floor Air Handler Room, Top of Duct	12" X 12"
3	Dust Sample, Third Floor Air Handler Room, Top of Duct	12" X 12"
4	Carpet Sample, Suite 275, Left Rear Corner	12" X 12"
5	Dust Sample, Basement Mechanical Room, Top of Breaker Box	3" X 18"
6	Carpet Sample, Basement Mechanical Room Office, Behind Door	12" X 12"
7	Carpet Sample, 1st Floor Lobby, West Side base of Steps	12" X 12"
8	Carpet Sample, Service Elevator, left Front Corner	12" X 12"

NOTE: All samples taken @ 2 liters/minutes for 60 seconds.



PREPPED DUST SAMPLE CASSETTE LABELS:

MAS JOB NUMBER:

M 2140

CLIENT JOB NUMBER:

SAMPLE NUMBER:

LABEL:

1	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	T=60secs.	Sample #1, 2200 Bldg.	
2	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	T=60secs.	Sample #2, 2200 Bldg.	
3	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	T=60secs.	Sample #3, 2200 Bldg.	
4	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump #: 7725	T=60sec.	Sample #4, 2200 Bldg.	
5	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	T=60sec.	Sample #5, 2200 Bldg.	
6	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	T=60sec	Sample #6, 2200 Bldg.	
7	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	T=60secs	Sample #7, 2200 Bldg.	
8	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	T=60secs	Sample #8, 2200 Bldg.	
9	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	T=60sec	Sample #9, 2200 Bldg.	
10	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	Sample #10, 2200 Bldg.		
11	A88-120.18	12-19-88	Engr: BS	Flow: 2 lpm
	Pump # 7725	T=60sec	Sample #1, 2600 Bldg.	



PREPPED DUST SAMPLE CASSETTE LABELS:

MAS JOB NUMBER:

M 2140

CLIENT JOB NUMBER:

SAMPLE NUMBER:

LABEL:

12

A88-120.18 12-19-88 Engr. BS Flow 2 lpm

Pump # 7725 T=60 sec Sample # 2, 2600 Bldg.

13

A88-120.18 12-19-88 Engr. BS Flow: 2 lpm

Pump # 7725 Sample # 3, 2600 Bldg.

14

A88-120.18 12-19-88 Engr. BS Flow: 2 lpm

Pump # 7725 T=60 sec. Sample # 4, 2600 Bldg.

15

A88-120.18 12-19-88 Engr. BS Flow: 2 lpm

Pump # 7725 T=60 sec Sample # 5, 2600 Bldg.

16

A88-120.18 12-19-88 Engr. BS Flow: 2 lpm

Pump # 7725 T=60 sec Sample # 6, 2600 Bldg.

17

A88-120.18 12-19-88 Engr. BS Flow: 2 lpm

Pump # 7725 T=60 sec Sample # 7, 2600 Bldg.

18

A88-120.18 12-19-88 Engr. BS Flow: 2 lpm

Pump # 7725 T=60 sec Sample # 8, 2600 Bldg.

PROJECT NAME:

Donna / Kinner

DATE OF PREP:

7-30-90 (1-10)

PROJECT NUMBER:

M21407-31-40 (11-18)

TYPE OF SAMPLES:

DUST

DATE DUE:

PREP TECH:

Donna / Kinner

PREP SOP #:

MT-003

LAB I.D. #	CLIENT I.D. #	FILTER TYPE	VOLUME FILTERED NO. 1	VOLUME FILTERED NO. 2	VOLUME FILTERED NO. 3	TOTAL SUSPENSION VOLUME	COMMENTS
M2140-1	Q th floor 3000	47mm NCE	1ml	10ml		100ml	
M2140-2	Q th floor	"	2ml	20ml			
M2140-3	6 th floor	"	1ml	10ml			
M2140-4	6 th floor	"	0.1ml	1ml			
M2140-5	5 th floor	"	1ml	10ml			
M2140-6	5 th floor	"	0.2ml	2ml			
M2140-7	4 th floor	"	2ml	15ml			
M2140-8	3 rd floor	"	0.5ml	5ml			
M2140-9	2 nd floor	"	0.7ml	7ml			
M2140-10	1 st floor	"	1ml	10ml			
M2140-11	4 th floor	"	0.7ml	7ml			
M2140-12	4 th floor	47mm NCE	0.5ml	5ml			

[illegible]

MATERIALS ANALYTICAL SERVICES, INC. DUST SHEET

PAGE # 12/8/2Client: Law Assoc. / KENNESAWAccelerating Voltage: 100 KVSample ID: No. 1Indicated Mag: 20 KX ~~25 KX~~Screen Mag: 154/4 KX ~~20 KX~~MAS Job Number: M 2140-1Microscope Number: 1 2 3 4Date Sample Analyzed: Grid 1 - 7/3/90 Grid 2 - 7/24/90Filter Type: MCE PC, Other =Filter Size: 25mm, 37mm, 47mmNumber of Openings/Grids Counted: 10.12Filter Pore Size (um): 0.22Grid Accepted, 600X: Yes No 4%Grid Opening: 1) 88.1 um x 87.6 umAnalyst: W. Smith2) 93.7 um x 89.6 umDilution Factor: 1: 0.00676.667

Calculating Results For Verbal Issue:

Effective Filter Area:

(A) 1339

Number of Grid Openings Examined:

(B) 10

Average Grid Opening Area in sq. mm:

(C) 0.008057

Volume of Liquid Filtered in ml:

(D) 15

Area Sampled in Sq. Ft.:

(E) 1

Number of Asbestos Structures Counted:

(F) 18

STRUCTURES PER SQ. FT. FORMULA:

$$\frac{A}{B} \cdot \frac{100}{C} \cdot \frac{1}{D} \cdot F = \text{(asbestos structures per sq. ft.)}$$

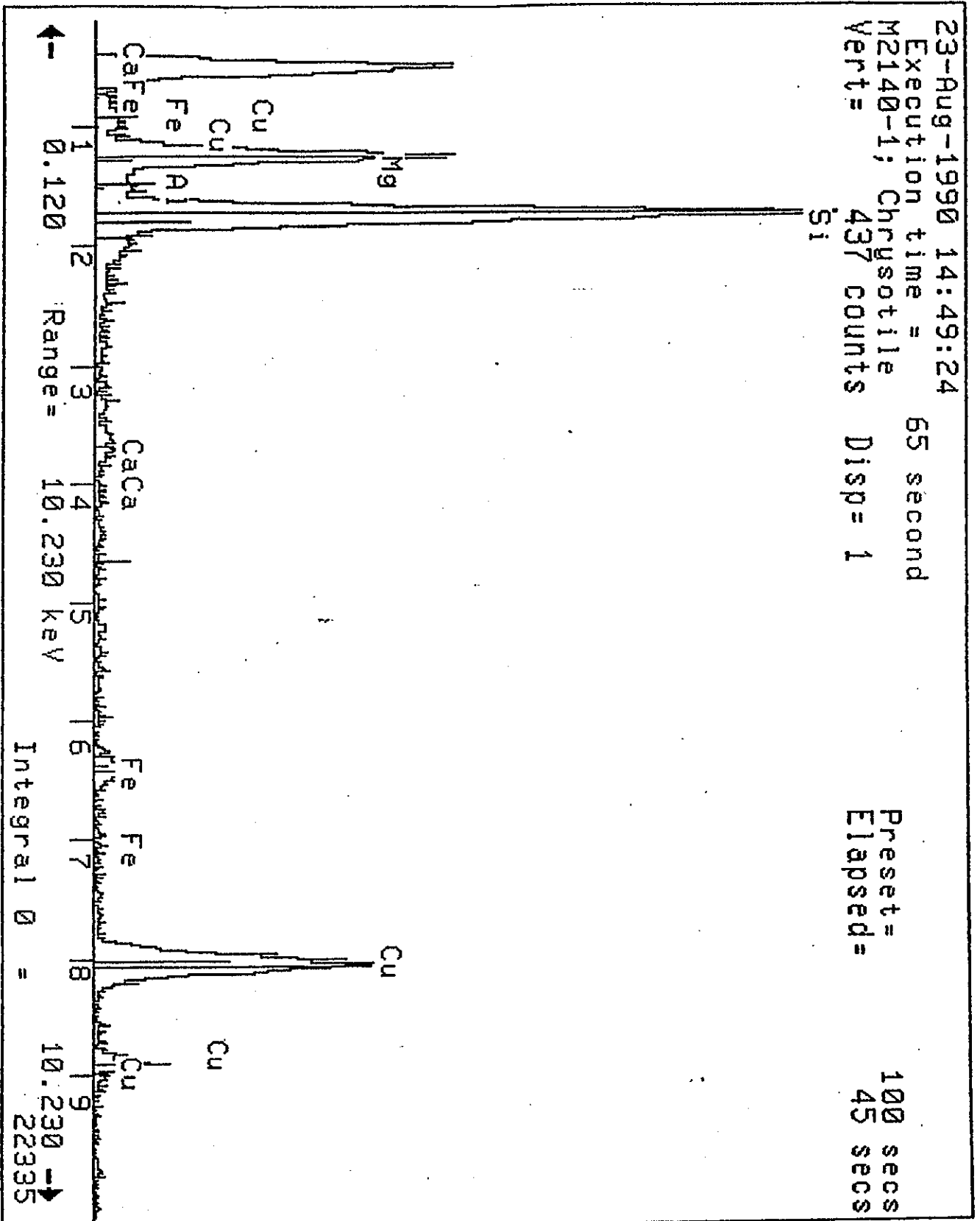
Calculations:

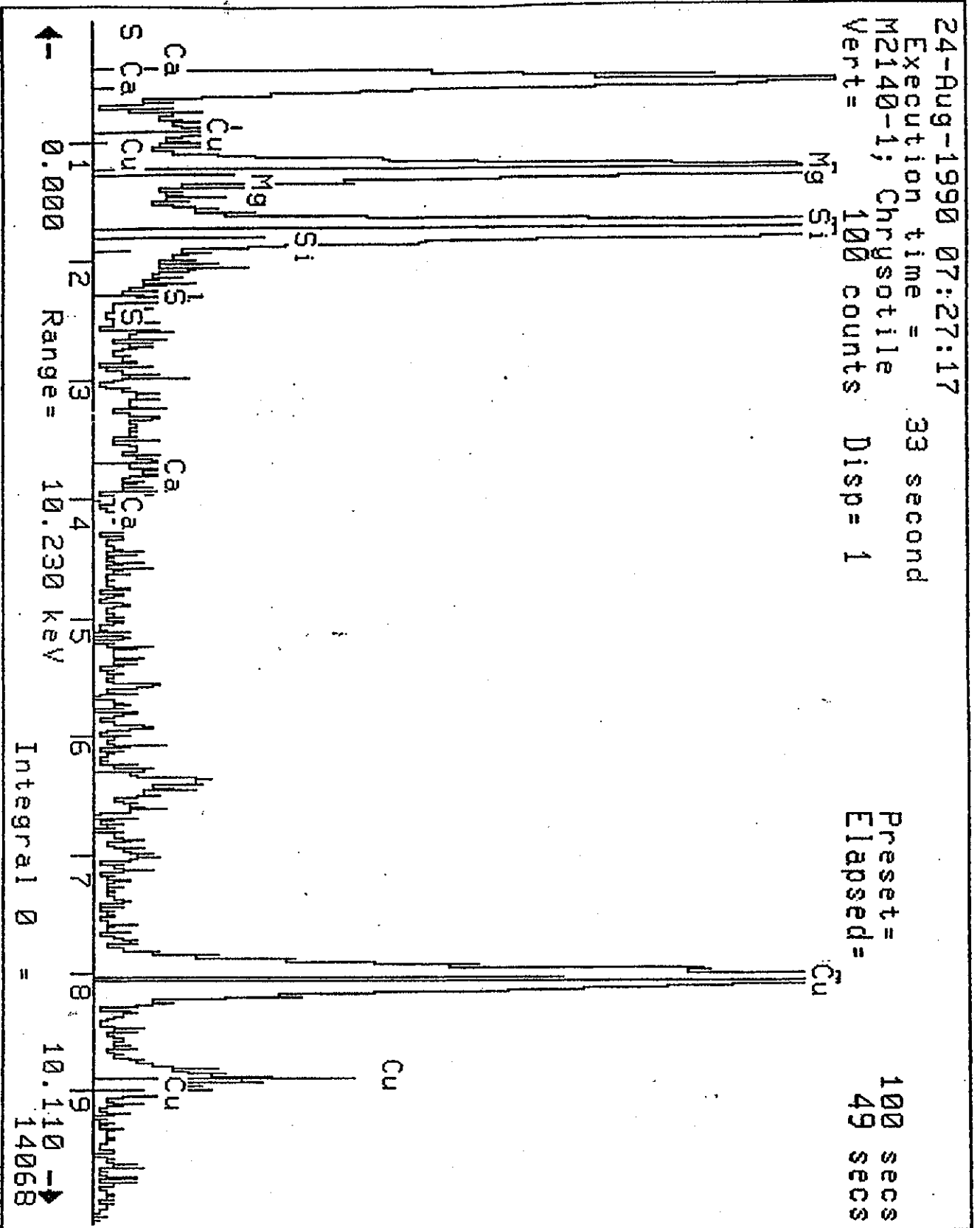
$$\frac{1339}{10} \cdot \frac{100}{0.008057} \cdot \frac{1}{15} \cdot 18 =$$

1.994 x 10⁶

M 2140-1

[illegible]





MATERIALS ANALYTICAL SERVICES, INC.
DUST SHEET

PAGE # 11Client: LAW ASSOC / KENNEDY & ASSOCAccelerating Voltage: 100 KVSample ID: # 2Indicated Mag: 20 -25KX WPS
Screen Mag: 15414 20KX WPSMAS Job Number: M 2140-2Microscope Number: 1 2 3Date Sample Analyzed: 24 - Aug - 90Filter Type: MCE, PC, Other =
Filter Size: 25mm, 37mm, 47mmNumber of Openings/Grids Counted: 10.1 2Filter Pore Size (um): 0.22Grid Accepted, 600X: Yes No 390Grid Opening: 1) 94.2 um x 93.7Analyst: W. D. Smith / R. Harmon2) 92 um x 92Dilution Factor: 1: 50Calculating Results For Verbal Issue:

Effective Filter Area:

(A) 1339

Number of Grid Openings Examined:

(B) 10

Average Grid Opening Area in sq. mm:

(C) 0.008645

Volume of Liquid Filtered in ml:

(D) 2

Area Sampled in Sq. Ft.:

(E) 1

Number of Asbestos Structures Counted:

(F) 30STRUCTURES PER SQ. FT. FORMULA:

$$\frac{A}{B} \cdot \frac{100}{C} \cdot \frac{1}{D} \cdot F = (\text{asbestos structures per sq. ft.})$$

Calculations:

$$\frac{1339}{10} \cdot \frac{100}{0.008645} \cdot \frac{1}{2} \cdot 30 = 2,323,110.7$$

CLIENT:

LAW ASSOC. / KENNESAW

PAGE #

212

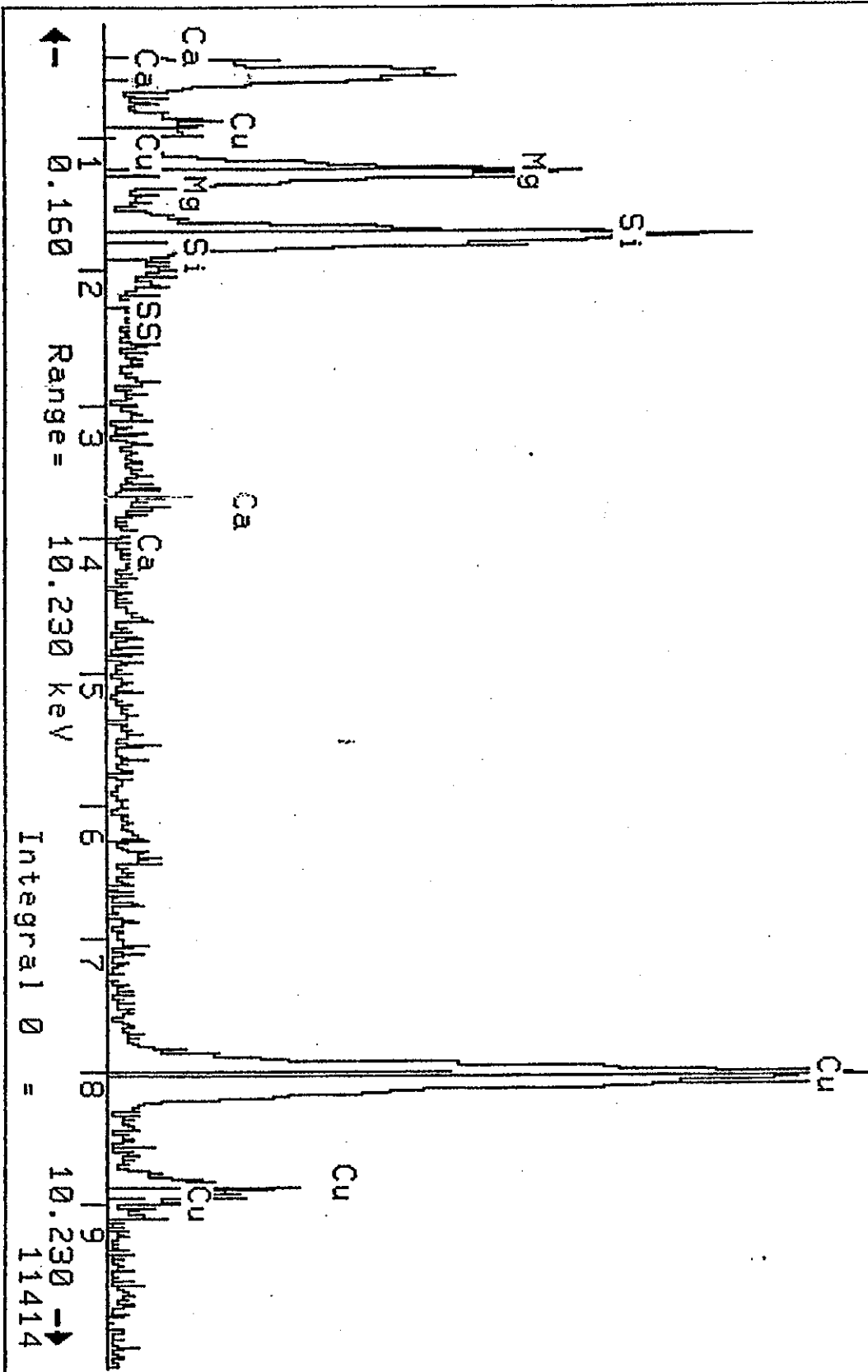
MAS JOB NUMBER:

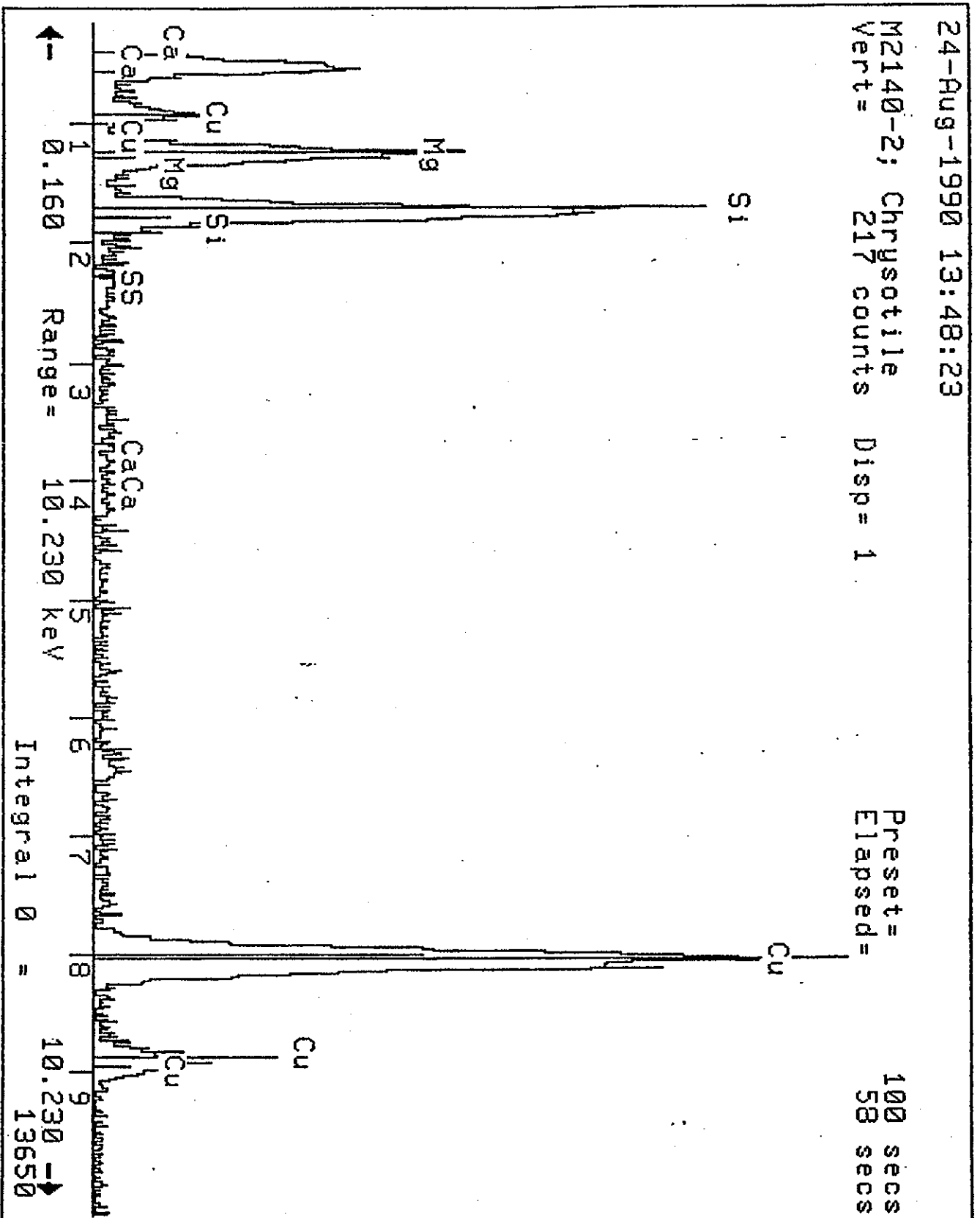
M

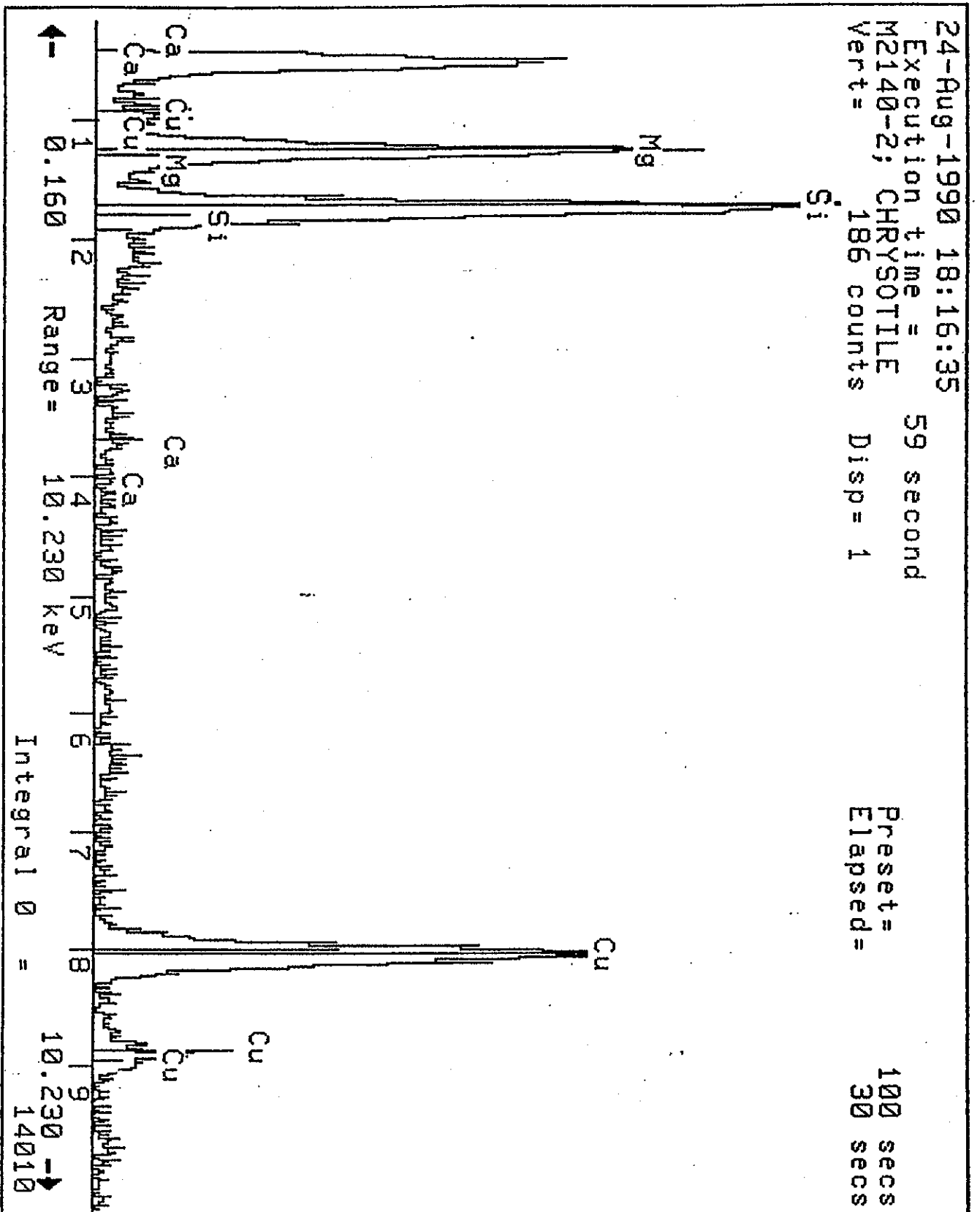
2140-2

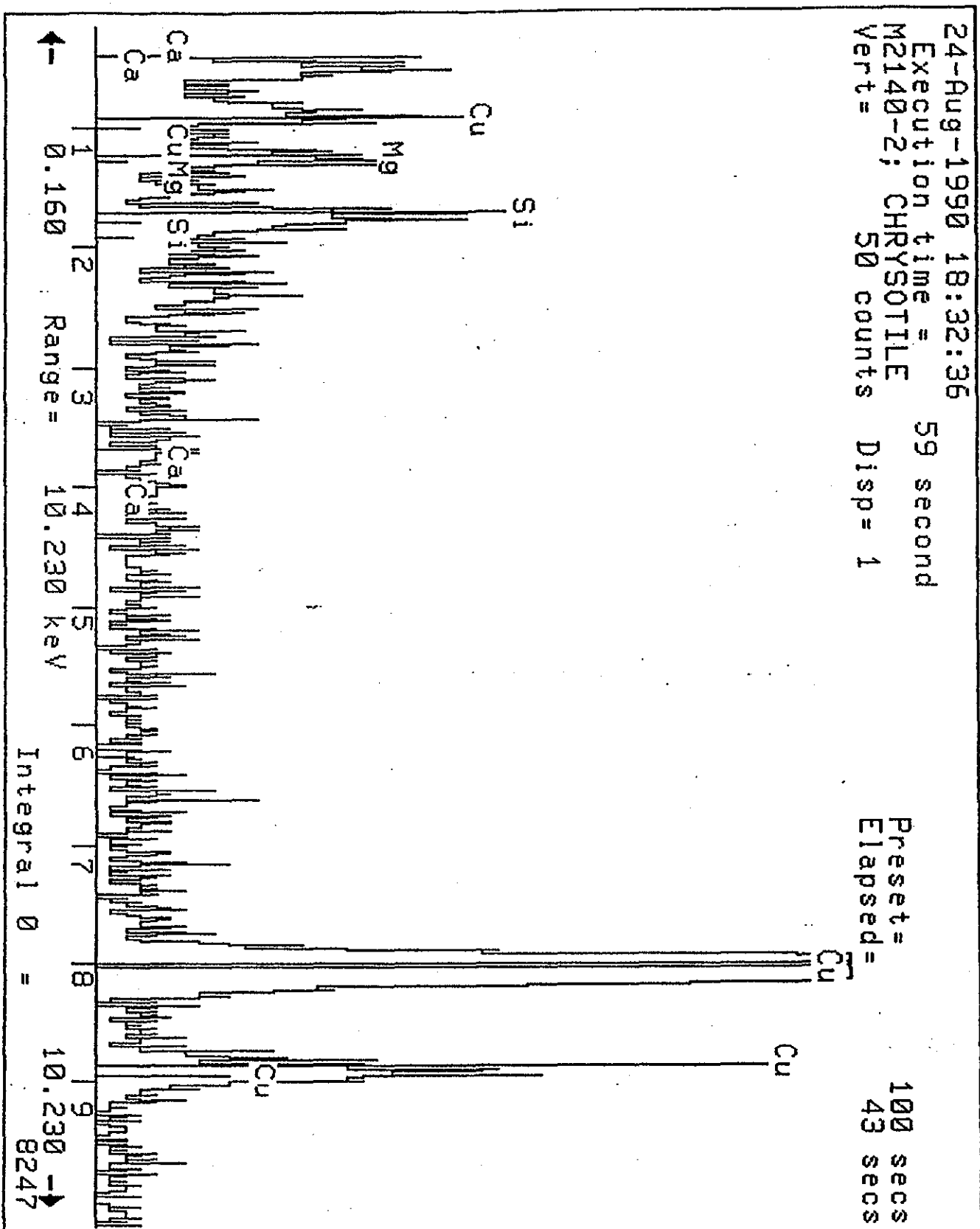
STR. #	GRID # SQUARE #	TYPE C, A	STRUCTURE F, B, C, M, N	LENGTH MICRONS	WIDTH MICRONS	CONFIRMATION		
						MORPH.	SAED.	EDS.
1	1-1	C	F	1	0.15	✓	✓	✓
2		C	M	3.5	0.2	✓	✓	P.O.
3	1-2	C ^W	B	1	0.15	✓	✓	✓
4	1-3	C	F	1.8	0.15	✓	✓	✓
5		C	F	1	0.15	✓	✓	✓
6	1-4	C	F	1.2	0.1	✓	✓	✓
7		C	F	2.2	0.2	✓	✓	✓
8		C	F	1.5	0.15	✓	✓	✓
9		C	F	2.5	0.2	✓	✓	✓
10		C	F	6.0	0.2	✓	✓	✓
11	1-5	C	M	1.5	0.15	✓	✓	P.O.
12		C	F	1	0.15	✓	✓	✓
13		C	F	1.5	0.15	✓	✓	✓
14	2-1	C	F	1.8	0.1	—	—	
15		C	F	2.0	0.1	—	—	
16	2-2	C	F	2.5	0.1	—	—	
17	2-3	C	F	8.0	0.1	—	—	
18		C	F	1.0	0.1	—	—	
19		C	C	5.5	2.2	—	—	
20		C	B	6.0	0.2	—	—	PD
21		C	F	4.8	0.1	—	—	
22		C	F	12.0	0.1	—	—	
23	2-4	C	F	1.5	0.1	—	—	
24		C	F	4.0	0.1	—	—	
25		C	F	2.2	0.1	—	—	
26	2-5	C	F	3.8	0.1	—	—	
27		C	F	2.5	0.1	—	—	
28		C	B	6.5	0.2	—	—	
29		C	C	3.0	2.5	—	—	
30		C	B	3.8	0.4	—	—	PD

24-Aug-1990 11:00:34
 Execution time = 31 seconds
 M2140-2; Chrysotile
 Vert = 155 counts Disp = 1
 Quantex > Preset = 100 secs
 Elapsed = 53 secs









10/19/05 10:10 AM

MATERIALS ANALYTICAL SERVICES, INC.
DUST SHEETPAGE # 1.15Client: LAW ASSOC / KENNEDY & ASSOCAccelerating Voltage: 100 KVSample ID: #3Indicated Mag: 20 -25KX
Screen Mag: 15414 20KXMAS Job Number: M 2140-3Microscope Number: 1 2 3 4Date Sample Analyzed: 24 - AUG - 90Filter Type: MCE PC, Other =
Filter Size: 25mm, 37mm, 47mmNumber of Openings/Grids Counted: 10.12Filter Pore Size (um): 0.22Grid Accepted, 600X: Yes No 3%Grid Opening: 1) 93 um x 90Analyst: W.P. Smith GRID 1, opening 1
only of Harmon2) 88 um x 90Dilution Factor: 1: 100

Calculating Results For Verbal Issue:

Effective Filter Area:

(A) 1339

Number of Grid Openings Examined:

(B) 10

Average Grid Opening Area in sq. mm:

(C) 0.008145

Volume of Liquid Filtered in ml:

(D) 1

Area Sampled in Sq. Ft.:

(E) 1

Number of Asbestos Structures Counted:

(F) 91

STRUCTURES PER SQ. FT. FORMULA:

$$\frac{A}{B \cdot C} \cdot \frac{100}{D} \cdot \frac{1}{E} \cdot F = (\text{asbestos structures per sq. ft.})$$

Calculations:

$$\frac{1339}{10 \cdot 0.008145} \cdot \frac{100}{1} \cdot \frac{1}{1} \cdot 91 = 11496 \times 10^8$$

CLIENT: LAW ASSOC. / KENNEDYPAGE # 215MAS JOB NUMBER: M 21403

STR. #	GRID # SQUARE #	TYPE C, A	STRUCTURE F, B, C, M, N	LENGTH MICRONS	WIDTH MICRONS	CONFIRMATION		
						MORPH.	SAED.	EDS.
1	1-1	C	M	3	0.2	✓	✓	✓
2		C	M	1	0.15	✓	✓	P.O
3		C	F	1.2	0.2	✓	✓	✓
4		C	F	1.1	0.15	✓	✓	✓
5		C	F	1.4	0.15	✓	✓	✓
6		C	F	0.9	0.15	✓	✓	✓
7		C	F	2.0	0.15	✓	✓	✓
8		C	F	0.9	0.15	✓	✓	✓
9		C	B	0.9	0.4	✓	✓	✓
10		C	F	3.6	0.2	✓	✓	✓
11	1-2	C	f	6.0	0.1	—	—	PO
12		C	f	2.8	0.1	—	—	
13		C	f	2.5	0.1	—	—	
14		C	f	0.8	0.1	—	—	
15		C	f	1.5	0.1	—	—	
16		C	f	1.2	0.1	—	—	
17		C	f	5.0	0.1	—	—	
18	1-3	C	f	1.0	0.1	—	—	
19		C	f	2.8	0.1	—	—	
20		C	f	1.5	0.1	—	—	PO
21		C	B	2.8	0.16	✓	—	
22		C	f	3.8	0.1	—	—	
23		C	f	1.5	0.1	—	—	
24		C	f	6.5	0.1	—	—	
25	1-4	C	f	6.0	0.1	—	—	
26		C	f	7.0	0.1	—	—	
27		C	f	2.5	0.1	—	✓	
28		C	f	3.5	0.1	—	—	
29		C	f	4.5	0.1	—	—	
30		C	f	1.5	0.1	—	—	PO

CLIENT: LAW ABDOZ / KENNEDYPAGE # 315MAS JOB NUMBER: M 2140-3

STR. #	GRID # SQUARE #	TYPE C, A	STRUCTURE F, B, C, M, N	LENGTH MICRONS	WIDTH MICRONS	CONFIRMATION		
						MORPH.	SAED.	EDS.
31	1-4 C0-20	C	C	4.0	1.8	✓	✓	
32		C	f	1.0	0.1	—	—	
33		C	f	2.0	0.1	—	—	
34		C	C	3.5	2.5	—	—	
35		C	f	1.5	0.1	—	—	
36		C	f	4.2	0.1	—	—	
37		C	B	6.5	0.2	—	—	
38		C	f	1.2	0.1	—	—	
39		C	f	2.5	0.1	—	—	
40		C	f	2.0	0.1	✓	—	PD
41	1-5	C	C	5.5	4.0	✓	—	
42		C	f	3.6	0.1	✓	—	
43		C	f	8.5	0.1	—	—	
44		C	F	4.2	0.1	—	—	
45		C	F	2.0	0.1	—	—	
46		C	f	4.0	0.1	—	—	
47		C	f	3.2	0.1	—	—	
48		C	f	8.0	0.1	—	—	
49		C	f	2.2	0.1	—	—	
50		C	f	2.5	0.1	—	—	PD
51		C	f	2.2	0.1	—	—	
52		C	f	12.0	0.1	—	—	
53	2-1	C	f	1.5	0.1	—	—	
54		C	f	4.8	0.1	—	—	
55		C	f	5.0	0.1	—	—	
56		C	f	1.5	0.1	—	—	
57	2-2	C	f	2.2	0.1	—	—	
58		C	F	1.2	0.1	—	—	
59		C	F	1.5	0.1	—	—	
60		C	F	3.0	0.1	✓	✓	PD

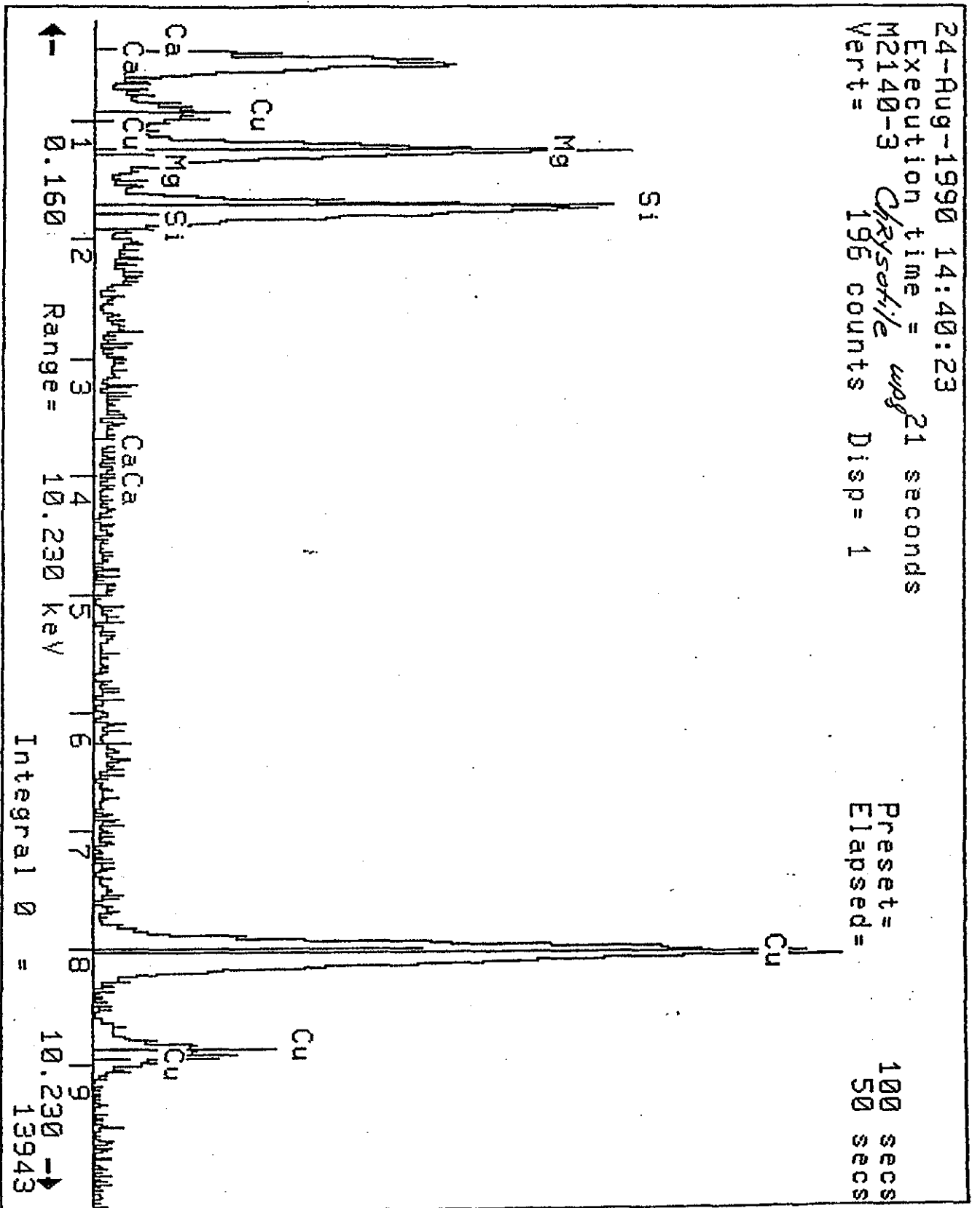
CLIENT: LHW ASSOC / KENNEDYPAGE # 415MAS JOB NUMBER: M 21412-3

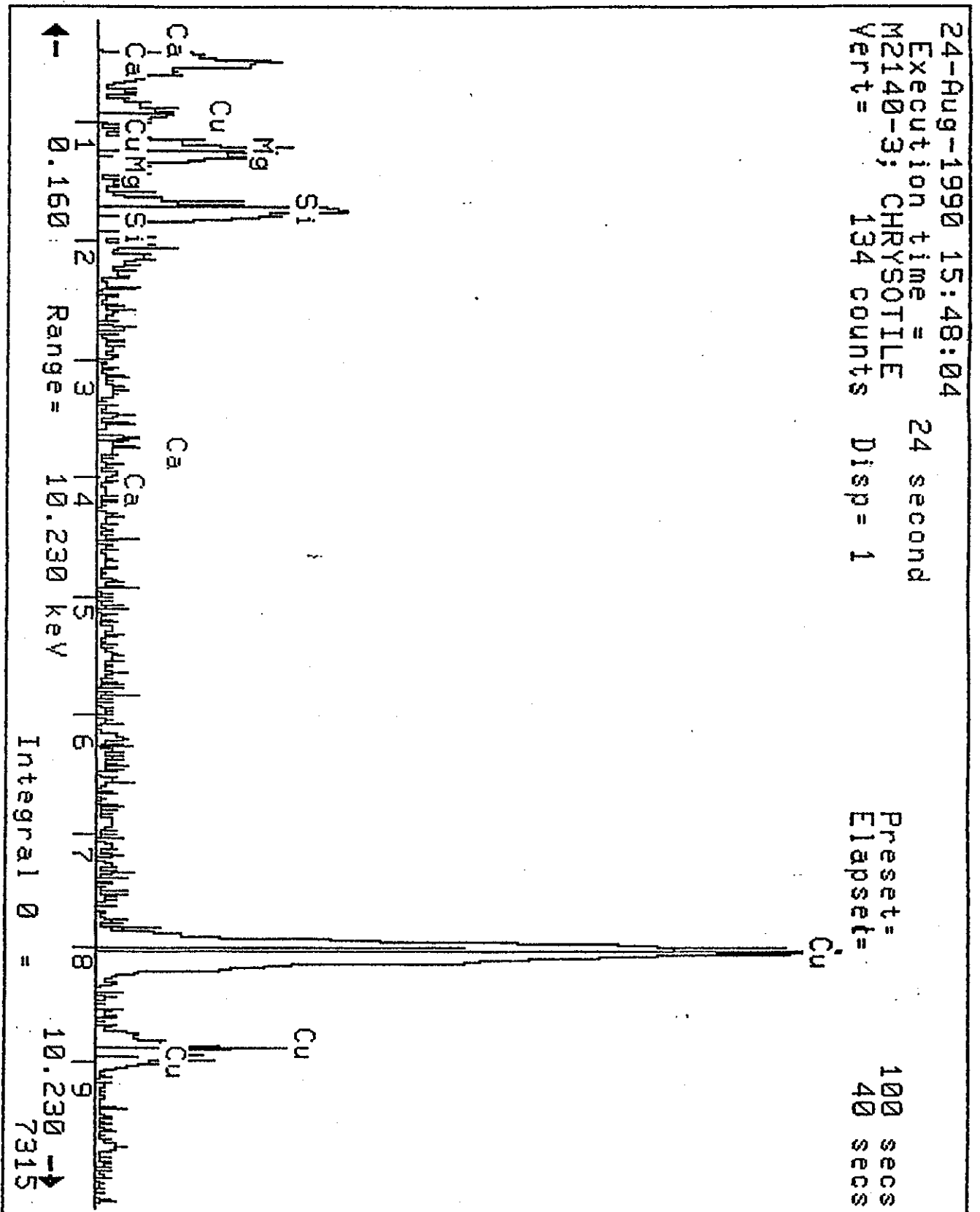
STR. #	GRID # SQUARE #	TYPE C, A	STRUCTURE F, B, C, M, N	LENGTH MICRONS	WIDTH MICRONS	CONFIRMATION		
						MORPH.	SAED.	EDS.
61	2-3	C	f	3.0	0.1	✓	✓	
62		C	C	3.5	1.8	✓	—	
63		C	B	1.5	0.2	—	—	
64	2-3	C	f	2.2	0.1	—	—	
65		C	B	4.5	0.2	✓	—	
66		C	M	3.2	2.8	✓	—	
67		C	M	2.5	2.0	✓	—	
68		C	f	1.5	0.1	—	—	
69		C	C	5.0	3.8	—	—	
70		C	f	3.2	0.1	—	—	PD
71		C	B	1.8	0.2	—	—	
72	2-4	C	f	6.5	0.1	—	—	
73		C	f	1.2	0.1	✓	—	
74		C	f	6.8	0.1	—	—	
75		C	f	1.5	0.1	✓	—	
76		C	f	2.2	0.1	—	—	
77		C	f	3.2	0.1	—	—	
78		C	f	2.8	0.1	—	—	
79		C	f	2.2	0.1	—	—	
80		C	M	3.8	3.0	✓	—	PD
81		C	f	4.5	0.1	—	—	
82		C	C	2.0	1.0	✓	✓	
83	2-5	C	f	3.5	0.1	—	—	
84		C	f	1.0	0.1	—	—	
85		C	f	1.2	0.1	—	—	
86		C	M	4.5	2.5	—	—	
87		C	f	2.0	0.1	—	—	
88		C	f	5.0	0.1	—	—	
89		C	f	3.5	0.1	—	—	
90		C	C	4.0	1.5	—	✓	AD

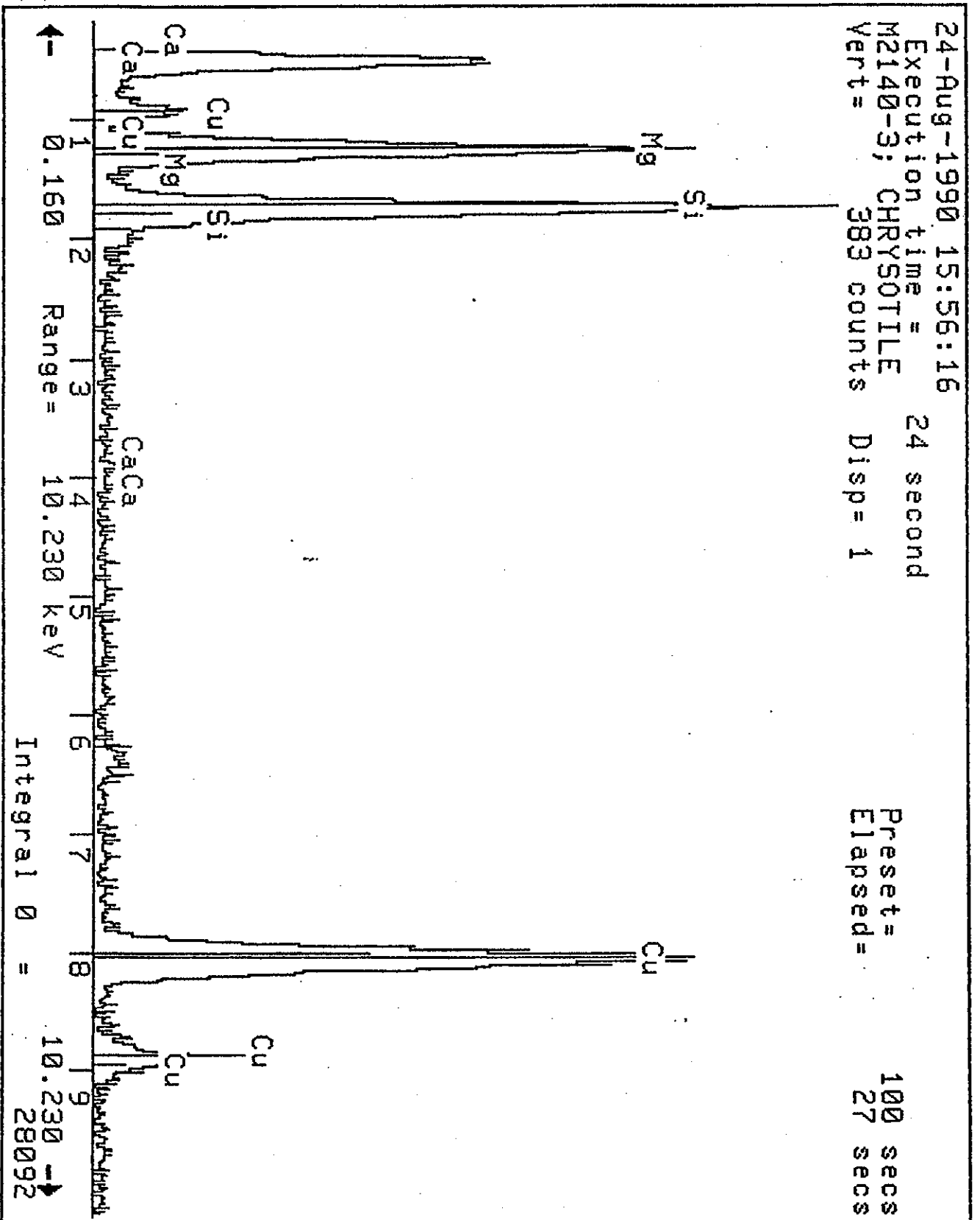
PAGE # 515

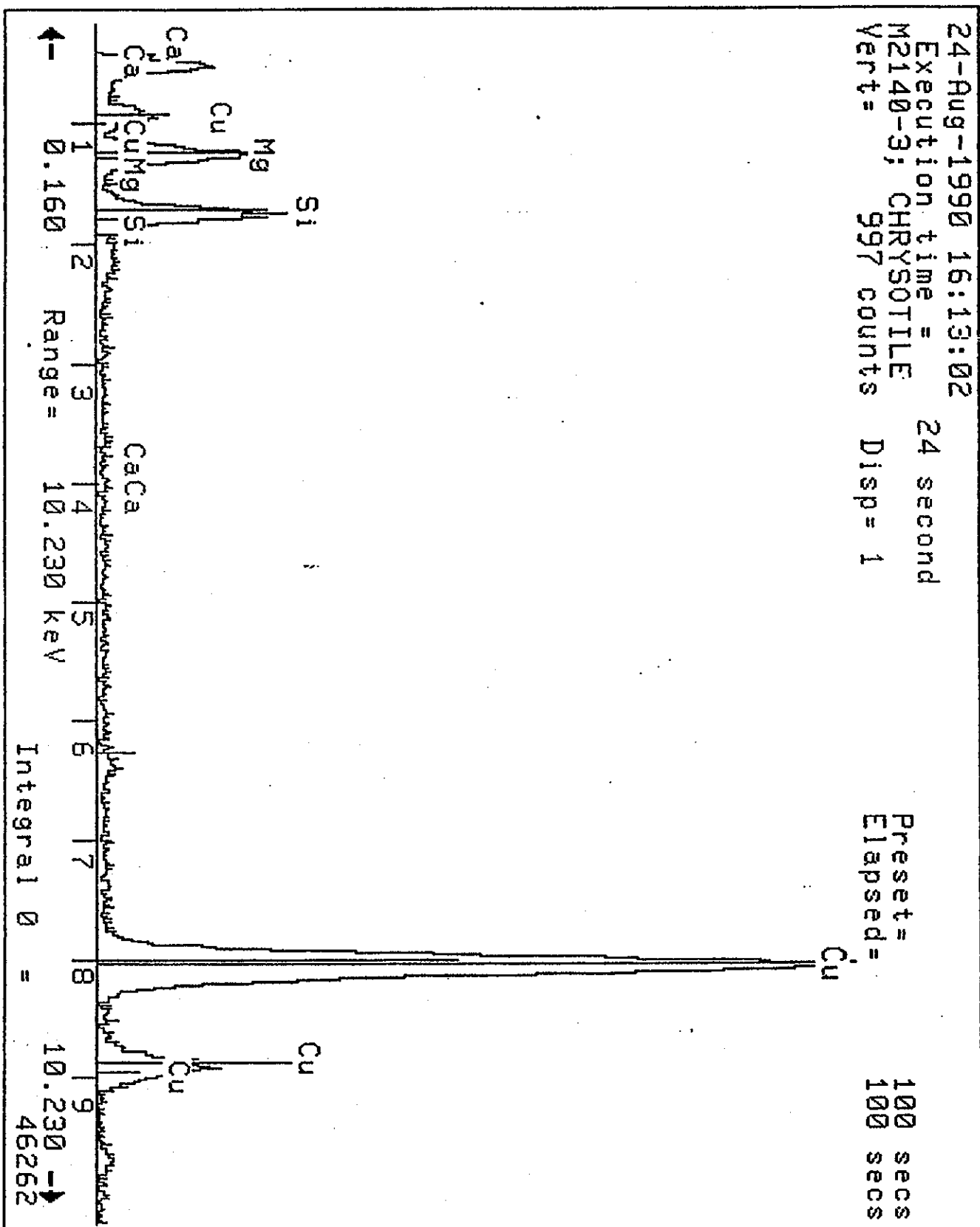
MAS JOB NUMBER: M 2140-3

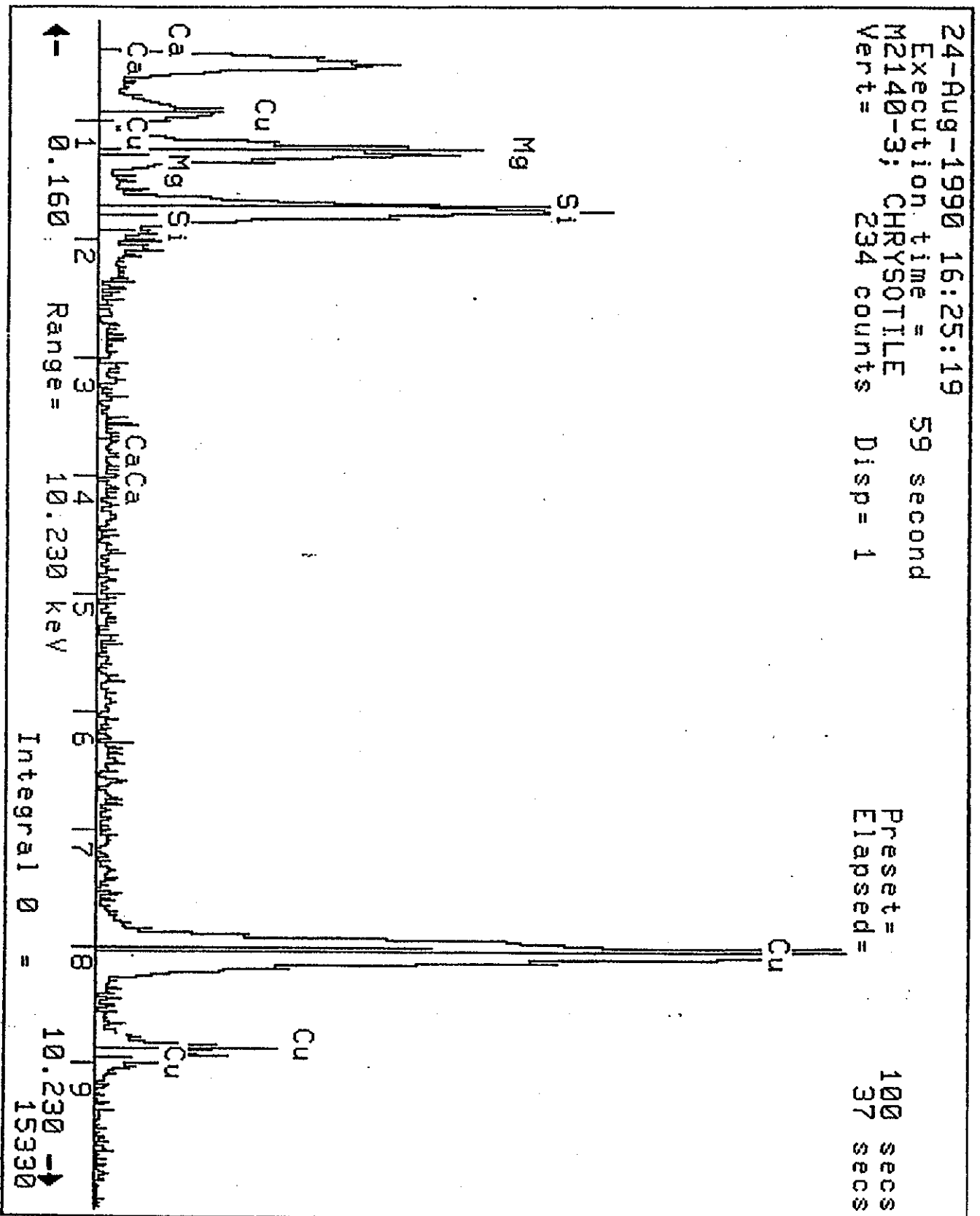
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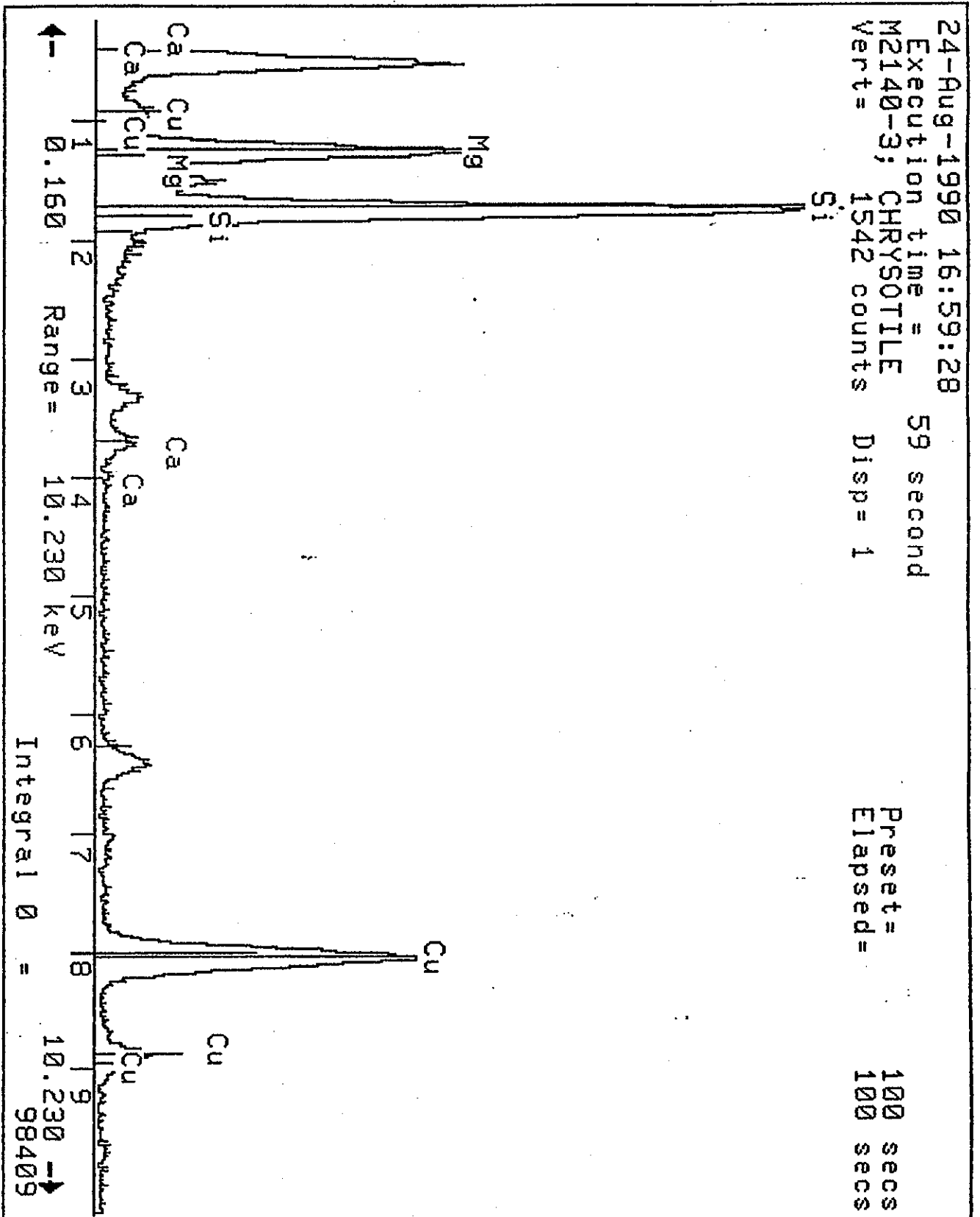


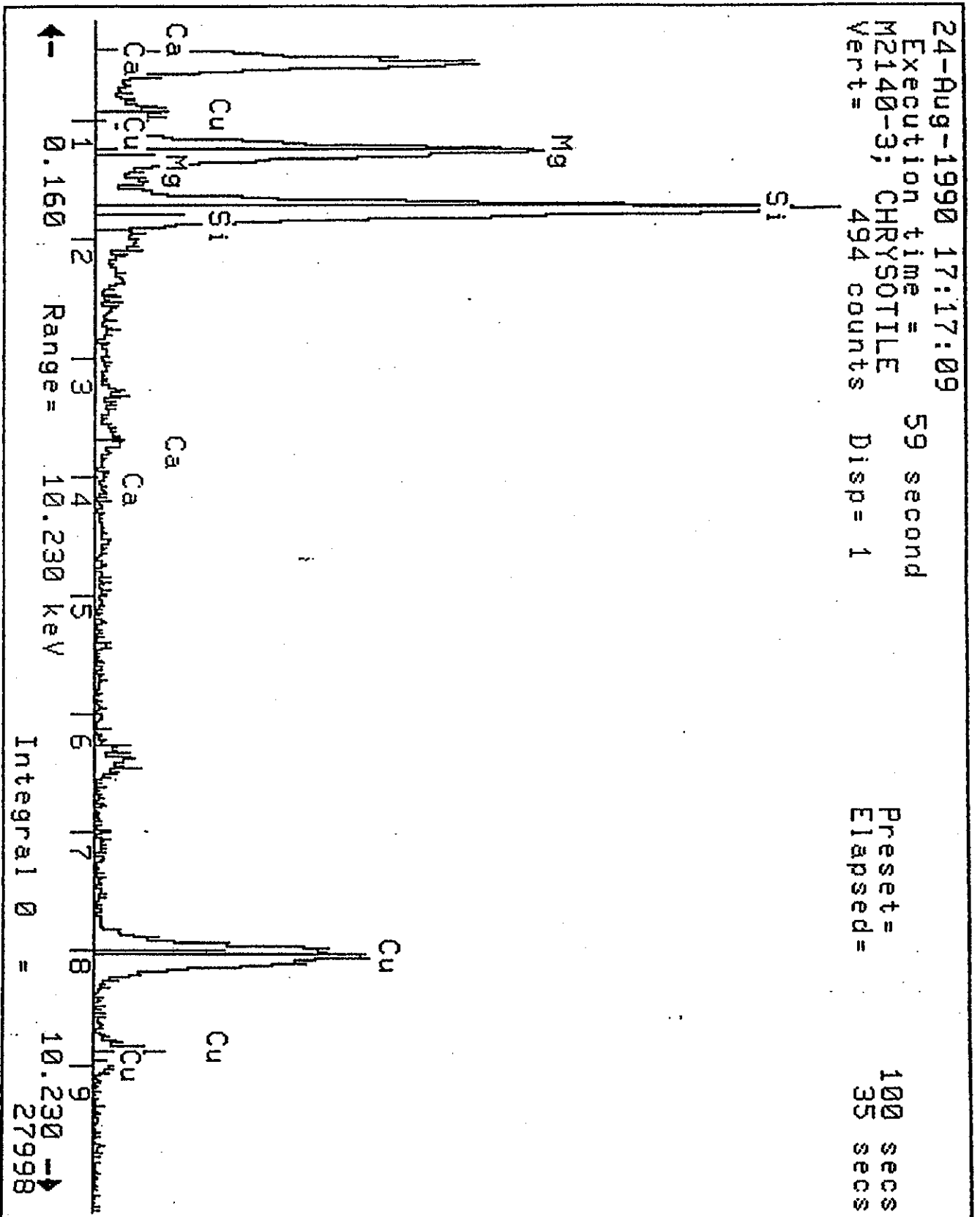


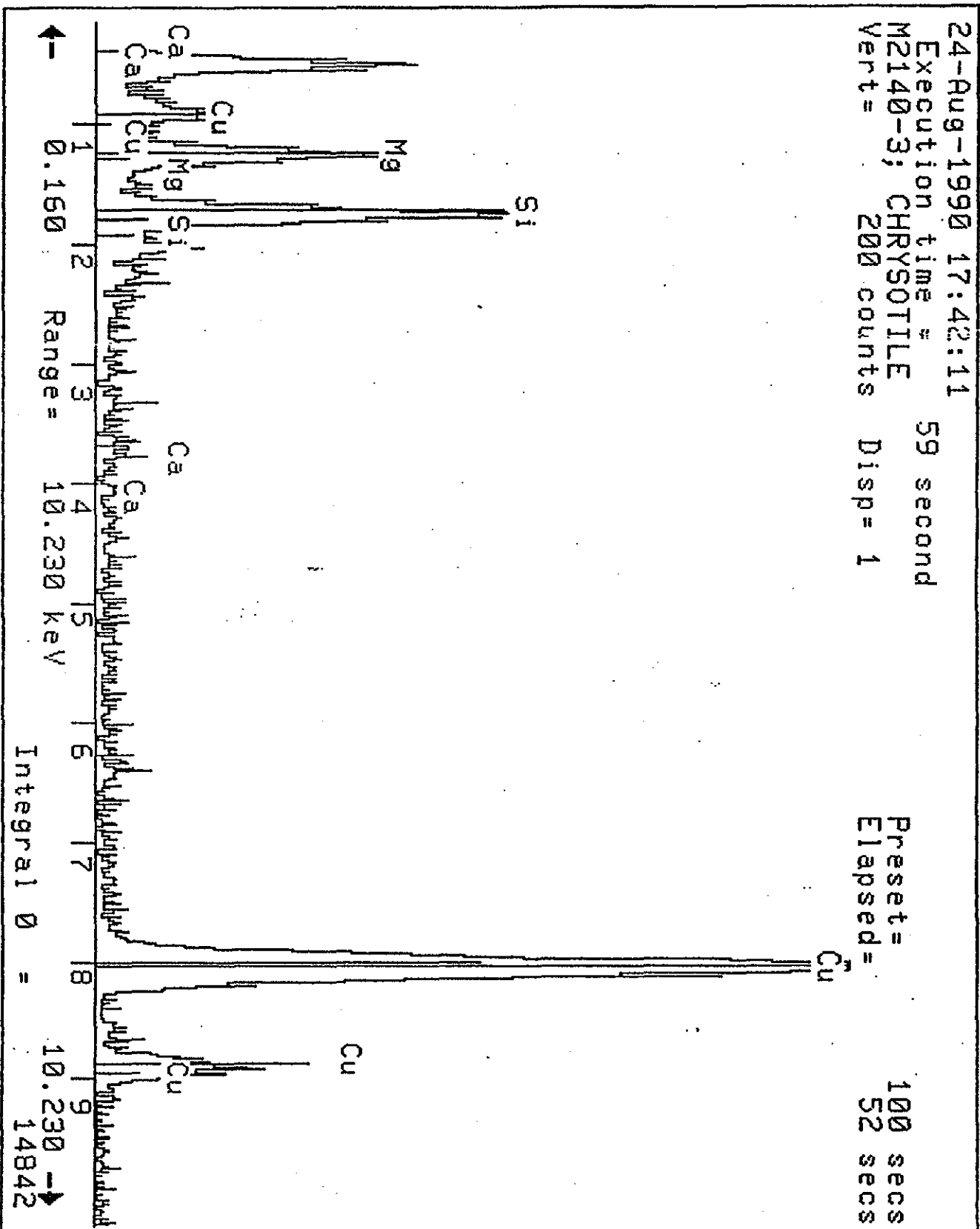












MATERIALS ANALYTICAL SERVICES, INC.
DUST SHEET

PAGE # 1.12Client: LAW ASSOC / KENNEDYAccelerating Voltage: 100 KVSample ID: 4Indicated Mag: 20 25KX
Screen Mag: 15414 20KXMAS Job Number: M 2140-4Microscope Number: ① 2 3 4
Filter Type: MCE PC, Other =Date Sample Analyzed: 8-27-90Filter Size: 25mm, 37mm, ④ 47mmNumber of Openings/Grids Counted: 101 2Filter Pore Size (um): 0.22Grid Accepted, 600X: Yes No 1090Grid Opening: 1) 88 um x 89 uAnalyst: Al Harmon2) 90 um x 91 uDilution Factor: 1: 50Calculating Results For Verbal Issue:

Effective Filter Area:

(A) 1339

Number of Grid Openings Examined:

(B) 10

Average Grid Opening Area in sq. mm:

(C) 0.008011

Volume of Liquid Filtered in ml:

(D) 2

Area Sampled in Sq. Ft.:

(E) 1

Number of Asbestos Structures Counted:

(F) 3STRUCTURES PER SQ. FT. FORMULA:

$$\frac{A}{B} \cdot \frac{C}{D} \cdot \frac{1}{E} \cdot F = (\text{asbestos structures per sq. ft.})$$

Calculations:

$$\frac{1339}{10} \cdot \frac{0.008011}{2} \cdot \frac{1}{1} \cdot 3 = 2.5071 \times 10^0$$

CLIENT:

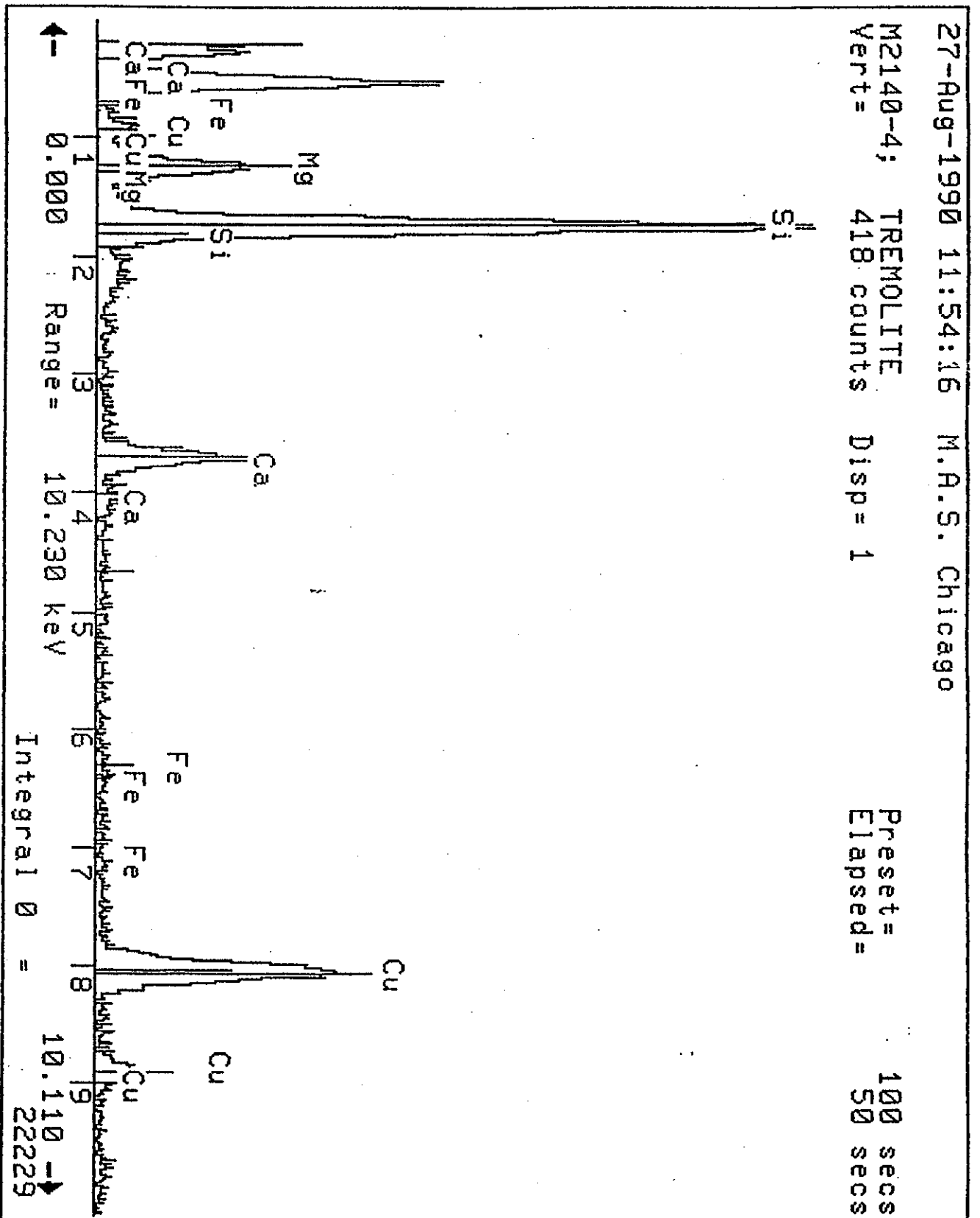
LAW ASSOC / KENNEDY

PAGE # 212

MAS JOB NUMBER:

M-214/D-4

[illegible]



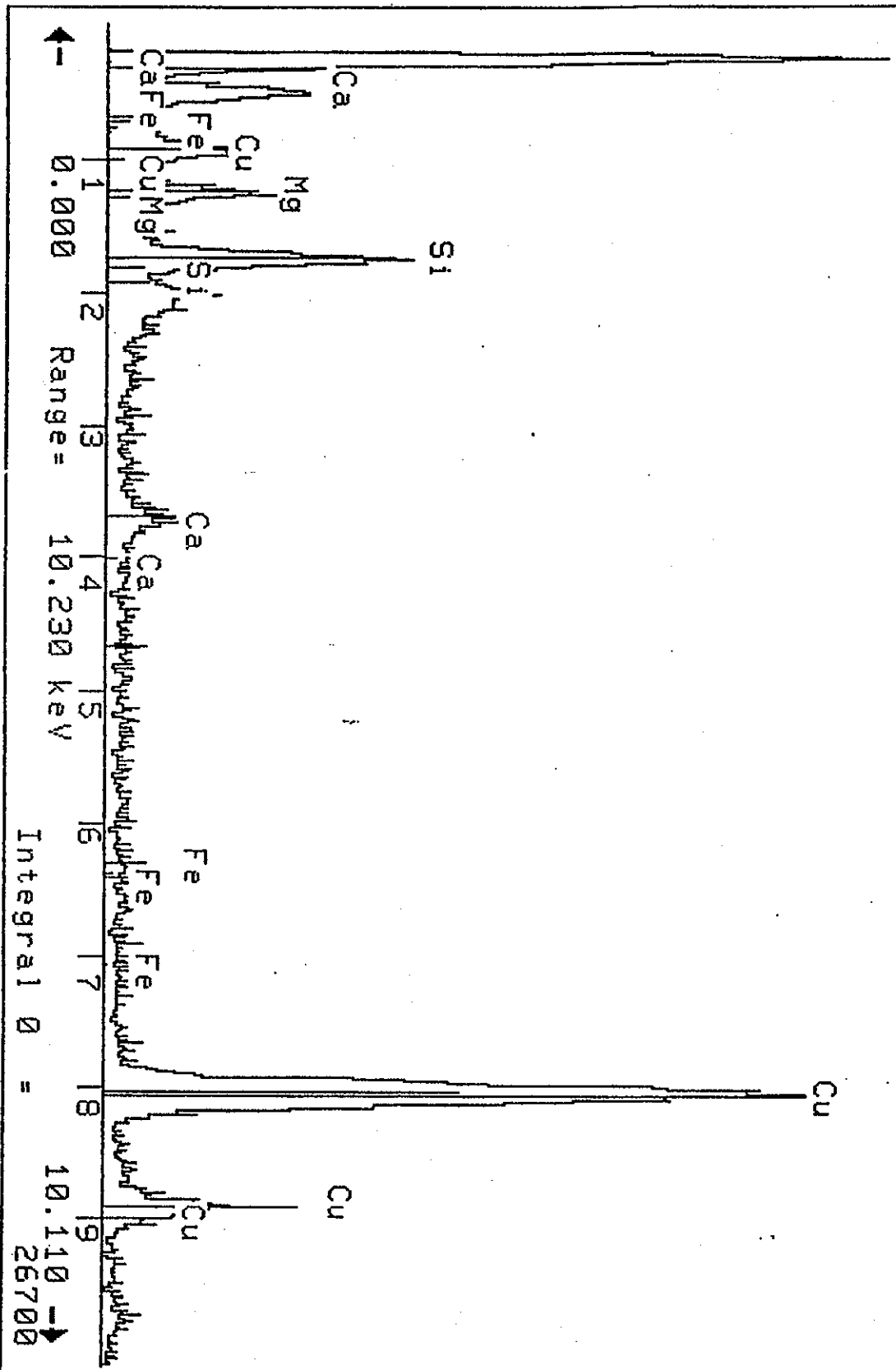
27-Aug-1990 12:00:40 M.A.S. Chicago

M2140-4; CHRYSOTILE
Vert = 388 counts

Disp = 1

Preset =
Elapsed =

100 secs
64 secs



MATERIALS ANALYTICAL SERVICES, INC.
DUST SHEET

PAGE # 1.12Client: LAW ASSOC / KECKESOWAccelerating Voltage: 100 KVSample ID: 5Indicated Mag: 20 25KX
Screen Mag: 15414 20KXMAS Job Number: M 2140-5Microscope Number: 1 2 3 4Date Sample Analyzed: 8-27-90Filter Type: MCE PC, Other =Filter Size: 25mm, 37mm, 47mmNumber of Openings/Grids Counted: 101 2Filter Pore Size (um): 0.22Grid Accepted, 600X: (Yes) No 590Grid Opening: 1) 90 um x 90Analyst: Al Harmon2) 91 um x 90Dilution Factor: 1: 4Calculating Results For Verbal Issue:

Effective Filter Area:

(A) 1339

Number of Grid Openings Examined:

(B) 10

Average Grid Opening Area in sq. mm:

(C) 0.1008145

Volume of Liquid Filtered in ml:

(D) 25

Area Sampled in Sq. Ft.:

(E) 1

Number of Asbestos Structures Counted:

(F) 17STRUCTURES PER SQ. FT. FORMULA:

$$\frac{A}{B} \cdot \frac{C}{D} \cdot \frac{1}{E} \cdot F = (\text{asbestos structures per sq. ft.})$$

Calculations:

$$\frac{1339}{10} \cdot \frac{0.1008145}{25} \cdot \frac{1}{1} \cdot 17 = 1.118 \times 10^4$$

CLIENT: LAW ASSOC / KENNEDY

PAGE # 212

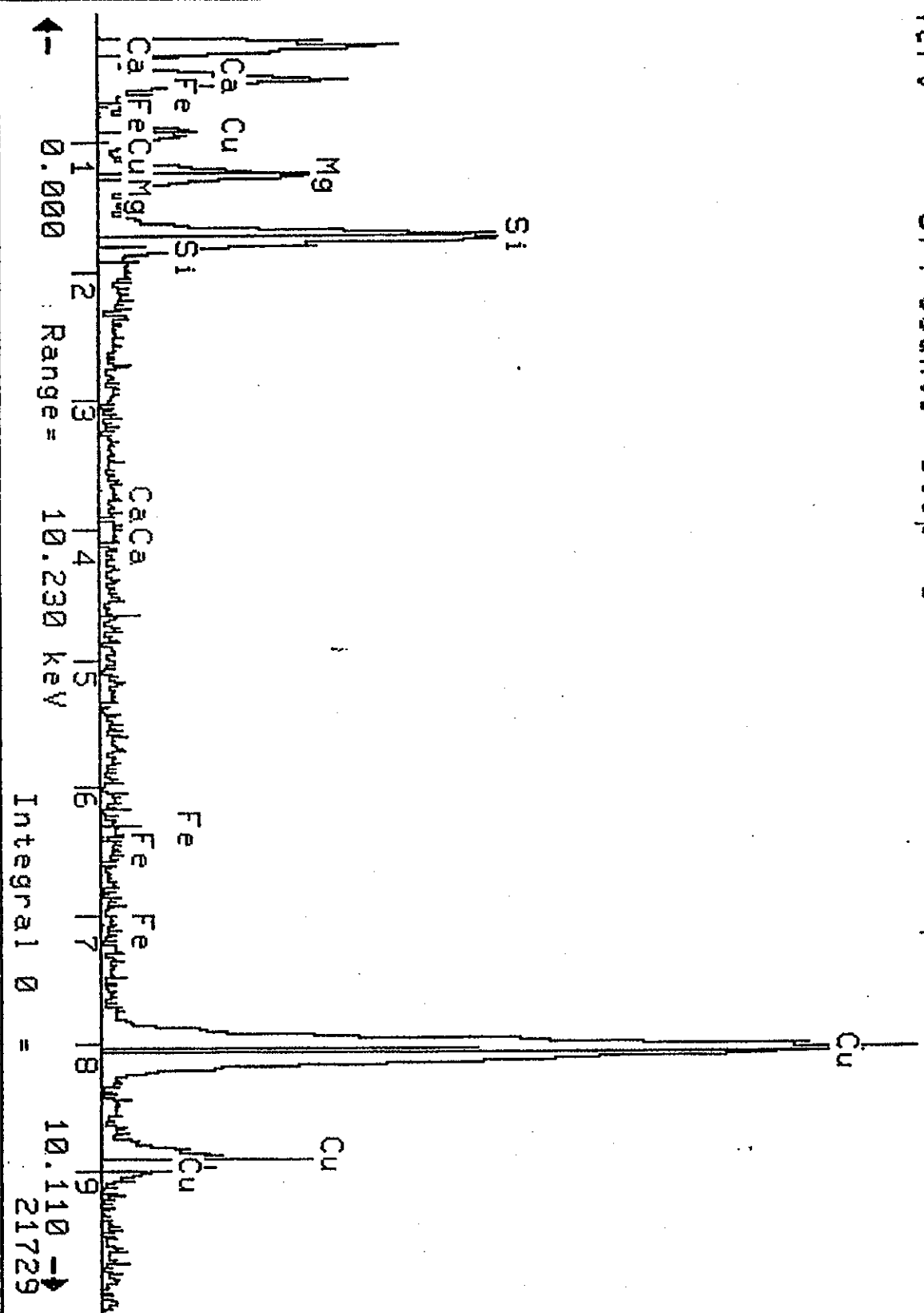
MAS JOB NUMBER: M-2140-5

[illegible]

M2140-5; CHRYSO TILE
Vert = 374 counts

Disp=1

```
Preset = 100 secs
Elapsed = 46 secs
```

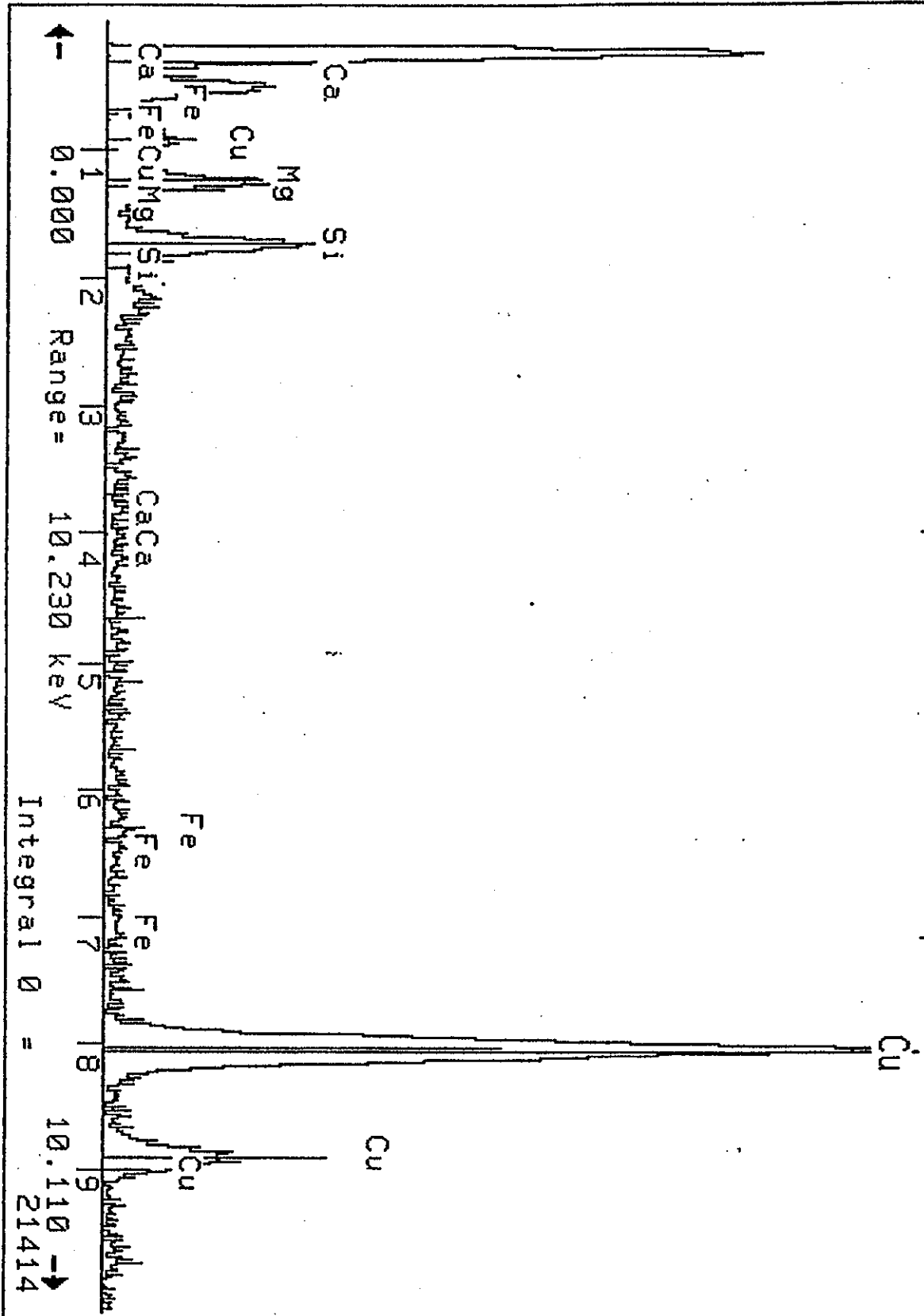


27-Aug-1990 14:41:17 M.A.S. Chicago

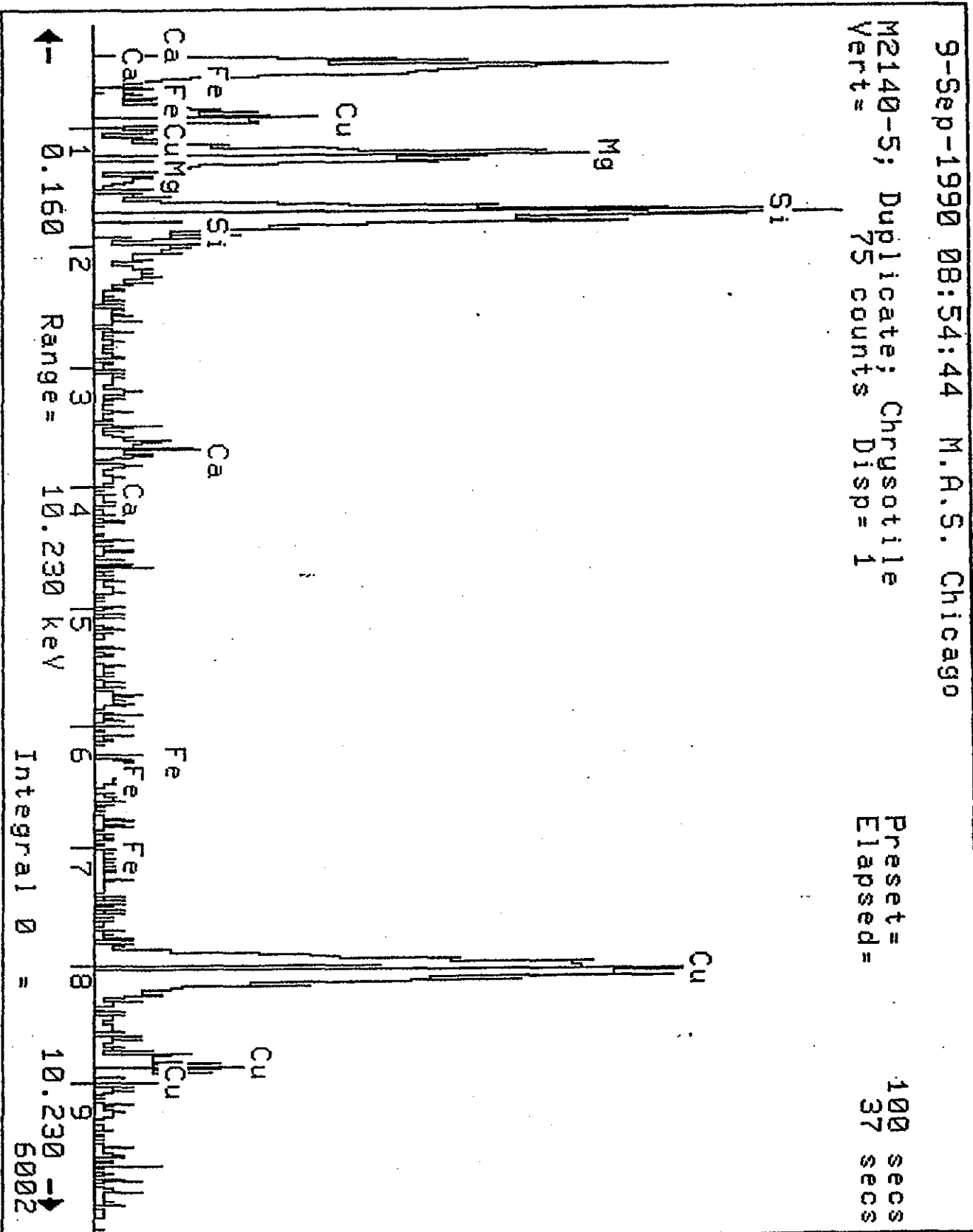
M2140-5; CHRYSO TILE
Vert = 344 counts

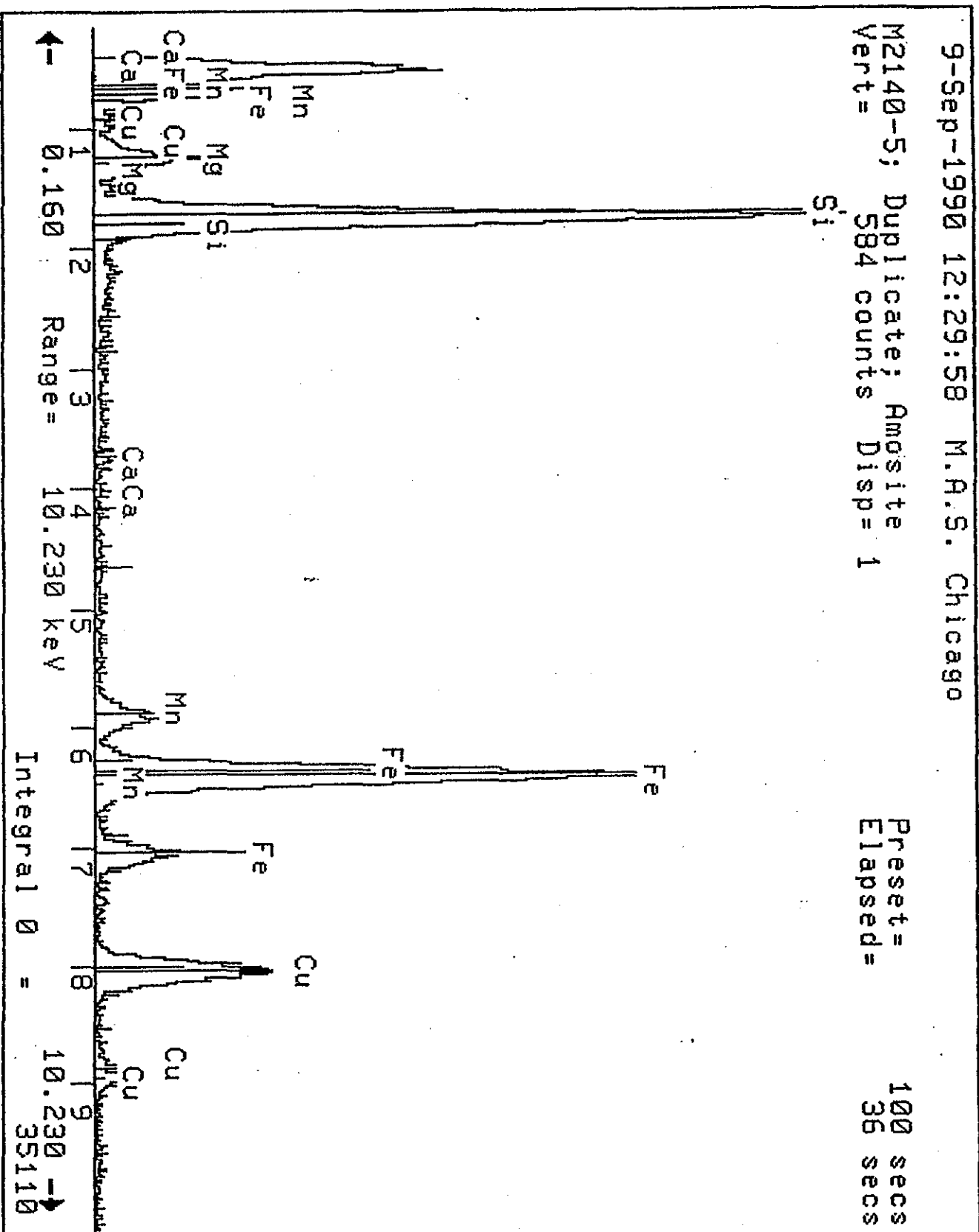
Disp = 1

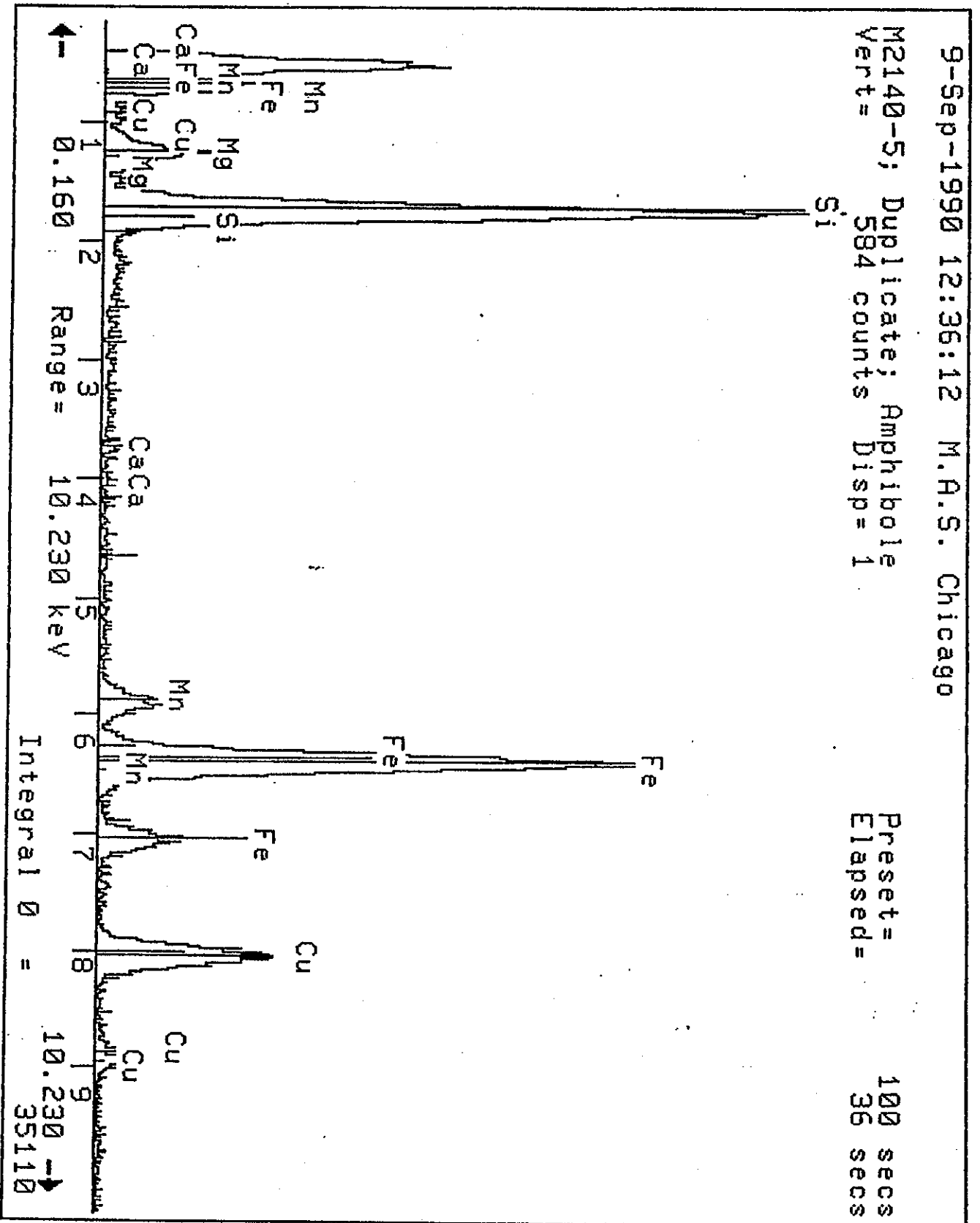
```
Preset = 100 secs
Elapsed = 58 secs
```



[illegible]



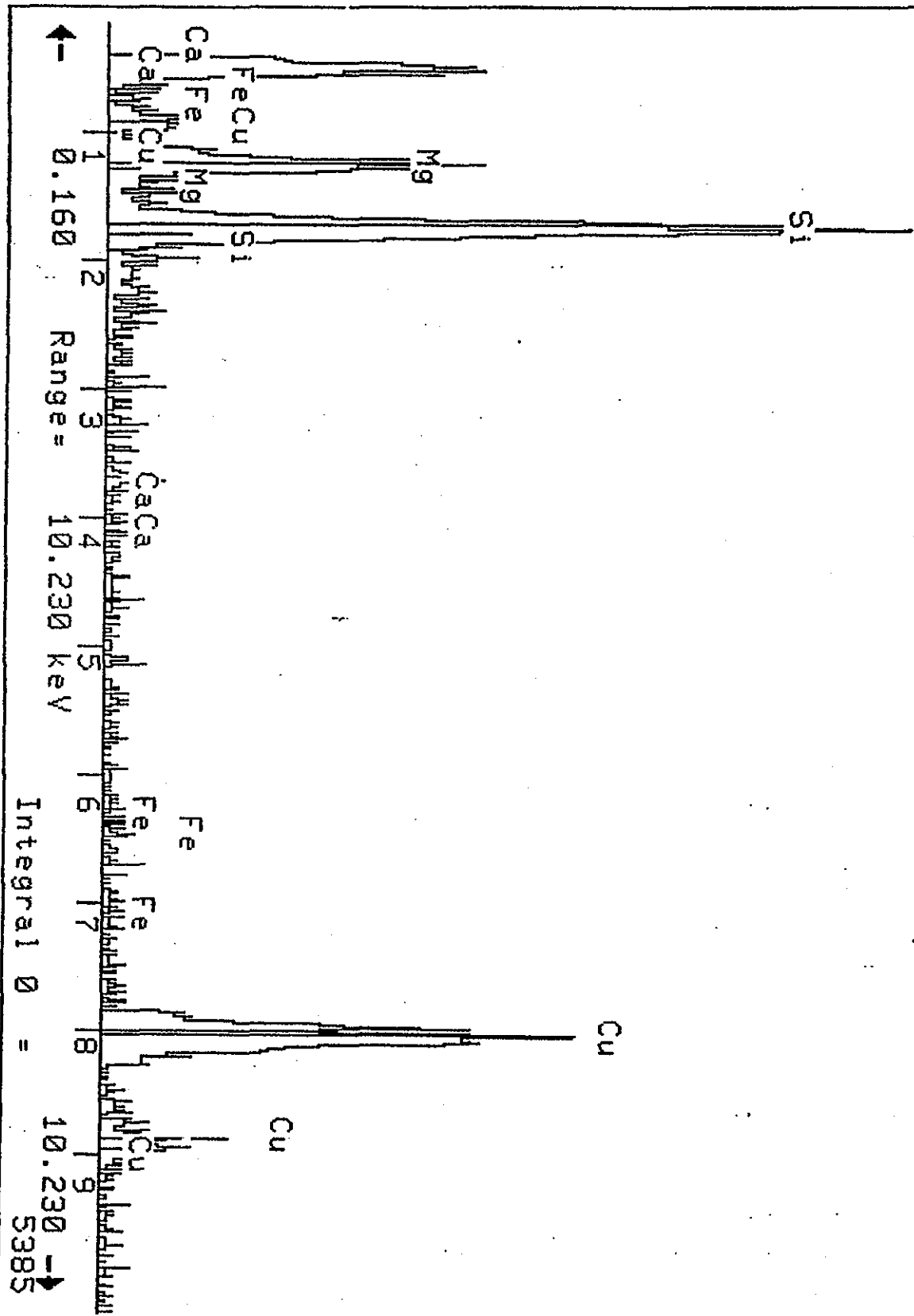




9-Sep-1990 12:39:24 M.A.S. Chicago

M2140-5; Duplicate; Chrysotile
Vert = 95 counts Disp = 1

```
Preset=100 secs
Elapsed=52 secs
```



MATERIALS ANALYTICAL SERVICES, INC.
DUST SHEETPAGE # 11Client: LAW ASSOC / KENNEDYAccelerating Voltage: 100 KVSample ID: # 6Indicated Mag: 20 - 25KX
Screen Mag: 15414 20KXMAS Job Number: M 2140-6Microscope Number: 1 2 3Date Sample Analyzed: Grid #1 25 - Aug. - 90Filter Type: MCE PC, Other =Number of Openings/Grids Counted: Grid #2 27-806 - 90
10.1 2Filter Size: 25mm, 37mm, 47Grid Accepted, 600X: (Yes) No 6%Filter Pore Size (um): 0.22Analyst: W.P. Smith / J. Althaus Grid #2Grid Opening: 1) 90.1 um x 89Dilution Factor: 1: 5002) 92 um x 89Calculating Results For Verbal Issue:

Effective Filter Area:

(A) 1339

Number of Grid Openings Examined:

(B) 10

Average Grid Opening Area in sq. mm:

(C) 0.008130

Volume of Liquid Filtered in ml:

(D) 0.2

Area Sampled in Sq. Ft.:

(E) 0.833

Number of Asbestos Structures Counted:

(F) 22STRUCTURES PER SQ. FT. FORMULA:

$$\frac{A}{B} \cdot \frac{C}{D} \cdot \frac{1}{E} \cdot F = (\text{asbestos structures per sq. ft.})$$

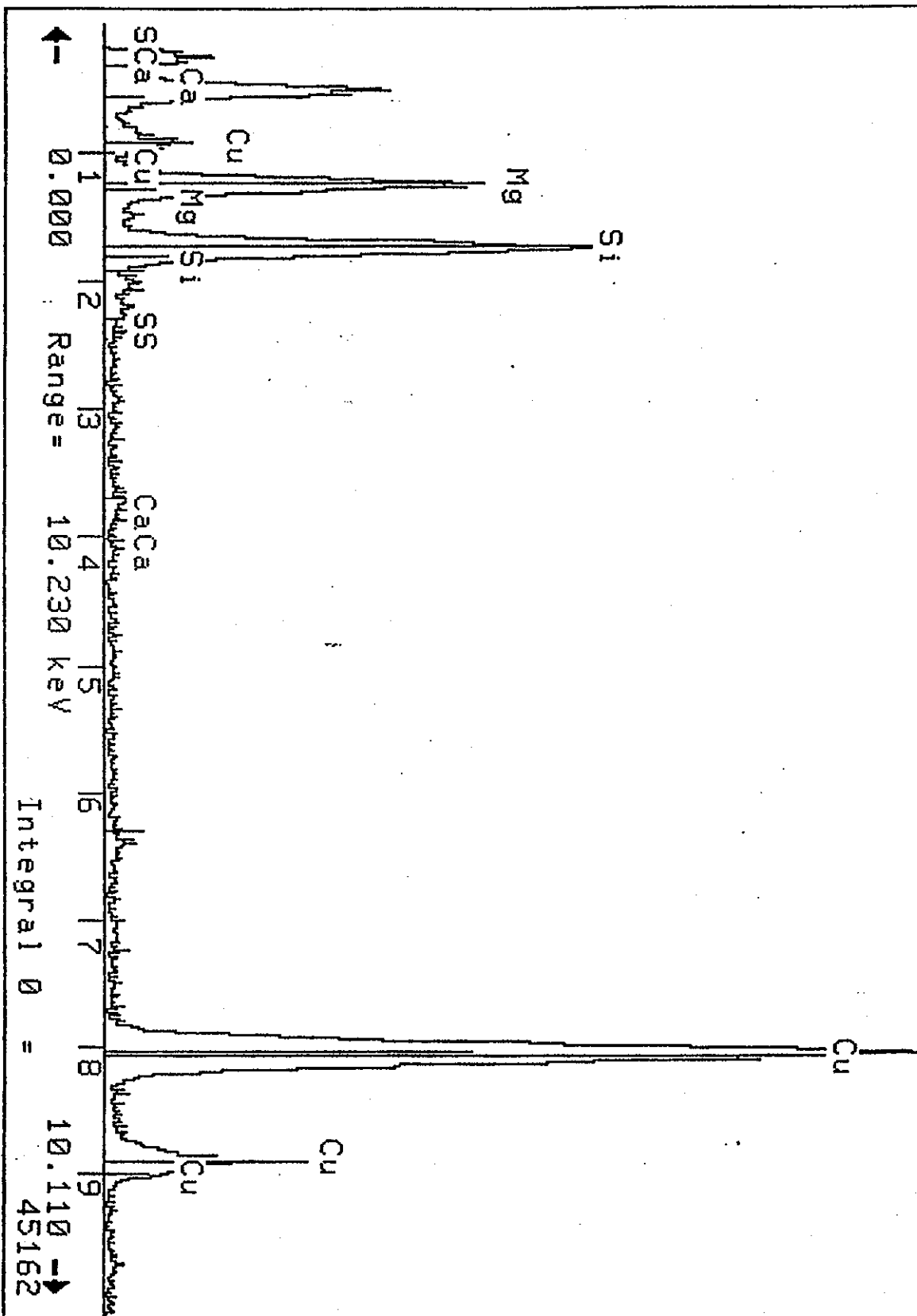
Calculations:

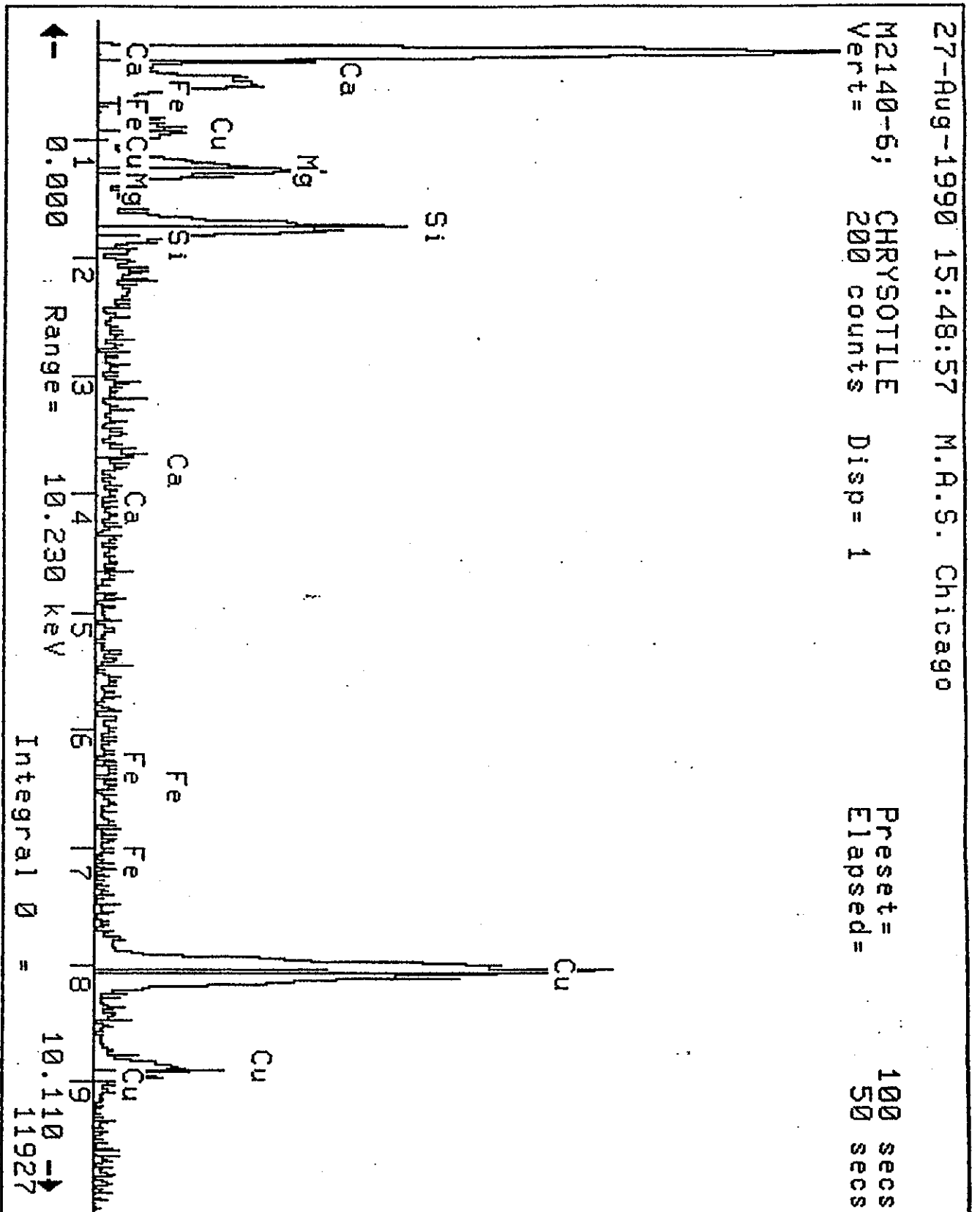
$$\frac{1339}{10} \cdot \frac{0.008130}{0.2} \cdot \frac{1}{0.833} \cdot 22 = 2.175 \times 10^8$$

25-Aug-1990 12:13:16

M2140-6; Chrysotile
Vert = 764 counts Disp = 1

Preset = 100 secs
Elapsed = 57 secs





MATERIALS ANALYTICAL SERVICES, INC.
DUST SHEET
PAGE # 1.13

Client: LAW ASSOC / KENNEDY Accelerating Voltage: 100 KV

Sample ID: 7 Indicated Mag: 20 25KX
 Screen Mag: 154/4 20KX

MAS Job Number: M 2140-7 Microscope Number: 2 3 4
 Filter Type: MCE, PC, Other =
 Date Sample Analyzed: 8-28-80 Filter Size: 25mm, 37mm, 47mm

Number of Openings/Grids Counted: 1.11 Filter Pore Size (um): 0.12

Grid Accepted, 600X: Yes No 10% Grid Opening: 1) 88 um x 87
 Analyst: Al Harmon 2) um x

Dilution Factor: 1: 50

Calculating Results For Verbal Issue:

Effective Filter Area: (A) 1339

Number of Grid Openings Examined: (B) 1

Average Grid Opening Area in sq. mm: (C) 0.007656

Volume of Liquid Filtered in ml: (D) 2.0

Area Sampled in Sq. Ft.: (E) 0.667

Number of Asbestos Structures Counted: (F) 91

STRUCTURES PER SQ. FT. FORMULA:

$$\frac{A}{B} \cdot \frac{100}{C} \cdot \frac{1}{D} \cdot F = (\text{asbestos structures per sq. ft.})$$

Calculations:

$$\frac{1339}{1} \cdot \frac{100}{0.007656} \cdot \frac{1}{2.0} \cdot 91 = 1.193 \times 10^9$$

CLIENT:

LAW #550C/KENNEDYPAGE # 215

MAS JOB NUMBER:

M- 2140-7

STR. #	GRID # SQUARE #	TYPE C, A	STRUCTURE F, B, C, M, N	LENGTH MICRONS	WIDTH MICRONS	CONFIRMATION		
						MORPH.	SAED.	EDS.
1	1-1	C	F	3.5	0.11	—	—	PD
2		C	F	3.0	0.11	—	—	
3		C	F	1.5	0.11	—	—	
4		C	C	2.5	1.5	—	—	
5		C	M	4.8	1.0	✓	—	
6		C	M	5.0	3.5	—	—	
7		C	C	3.5	2.8	—	—	
8		C	M	5.5	4.8	✓	—	
9		C	F	4.0	0.11	—	—	
10		C	B	5.5	0.2	—	—	PD
11		C	F	3.5	0.11	—	—	
12		C	F	4.5	0.11	—	—	
13		C	F	2.2	0.11	—	—	
14		C	F	1.5	0.11	—	—	
15		C	F	4.5	0.11	—	—	
16		C	F	3.5	0.11	—	—	
17		C	F	3.8	0.11	—	—	
18		C	F	1.5	0.11	—	—	
19		C	F	5.5	0.11	—	—	
20		C	F	2.8	0.11	—	—	PD
21		C	F	1.8	0.11	—	—	
22		C	F	4.0	0.11	—	—	
23		C	F	1.2	0.11	—	—	
24		C	F	3.5	0.11	—	—	
25		C	F	3.2	0.11	—	—	
26		C	F	2.2	0.11	✓	—	
27		C	F	3.6	0.11	✓	—	
28		C	F	1.0	0.11	—	—	
29		C	F	1.5	0.11	—	—	
30		C	F	2.5	0.11	—	—	PD

CLIENT: LHW ASSOC / KENNEDYPAGE # 315MAS JOB NUMBER: M- 2140-7

STR. #	GRID # SQUARE #	TYPE C, A	STRUCTURE F, B, C, M, N	LENGTH MICRONS	WIDTH MICRONS	CONFIRMATION		
						MORPH.	SAED.	EDS.
31	151 CONT	C	F	1.0	0.1	—	—	
32		C	F	2.8	0.1	—	—	
33		C	F	4.0	0.1	—	—	
34		C	F	1.5	0.1	—	—	
35		C	F	2.0	0.1	—	—	
36		C	F	2.2	0.1	—	—	
37		C	F	2.2	0.1	—	—	
38		C	F	2.8	0.1	—	—	
39		C	B	2.5	0.2	—	—	
40		C	F	2.2	0.1	—	—	PO
41		C	F	4.5	0.1	✓	—	
42		C	F	5.5	0.1	—	—	
43		C	F	2.8	0.1	—	—	
44		C	F	1.0	0.1	—	—	
45		C	F	3.5	0.1	✓	✓	
46		C	F	2.8	0.1	—	—	
47		C	C	3.5	2.4	✓	✓	
48		C	C	4.5	3.8	✓	—	
49		C	F	12.0	0.1	—	—	
50		C	F	2.2	0.1	—	—	PO
51		C	F	2.8	0.1	—	—	
52		C	M	4.0	3.5	—	—	
53		C	F	4.5	0.1	—	—	
54		C	F	2.0	0.1	—	—	
55		C	F	1.2	0.1	—	—	
56		C	F	2.8	0.1	—	—	
57		C	F	2.0	0.1	—	—	
58		C	F	2.5	0.1	—	—	
59		C	F	8.5	0.1	✓	—	
60		C	F	6.0	0.1	—	—	PO

CLIENT: AW ASSOC/KENNEDYPAGE # 415MAS JOB NUMBER: M- 2140-7

STR. #	GRID # SQUARE #	TYPE C, A	STRUCTURE F, B, C, M, N	LENGTH MICRONS	WIDTH MICRONS	CONFIRMATION		
						MORPH.	SAED.	EDS.
61	1-1 CONT	C	C	11.0	4.0	✓	✓	
62		C	F	4.0	0.1	—	—	
63		C	F	1.8	0.1	—	—	
64		C	C	8.5	3.6	—	—	
65		C	F	1.2	0.1	—	—	
66		C	F	2.0	0.1	—	—	
67		C	F	6.5	0.1	—	—	
68		C	F	1.2	0.1	—	—	
69		C	F	2.0	0.1	—	—	
70		C	F	3.0	0.1	✓	—	PO
71		C	F	3.2	0.1	—	—	
72		C	C	11.0	3.8	—	—	
73		C	F	0.8	0.1	—	—	
74		C	M	2.0	2.2	✓	—	
75		C	F	4.0	0.1	✓	—	
76		C	F	1.4	0.1	—	—	
77		C	F	2.8	0.1	—	—	
78		C	F	1.5	0.1	—	—	
79		C	F	1.2	0.1	—	—	
80		C	B	8.5	0.3	—	—	PO
81		C	M	2.5	0.8	✓	—	
82		C	F	1.5	0.1	—	—	
83		C	F	18.0	0.1	—	—	
84		C	F	4.8	0.1	—	—	
85		C	F	1.5	0.1	✓	—	
86		C	F	4.6	0.1	—	—	
87		C	F	1.2	0.1	✓	—	
88		C	B	1.5	0.2	✓	—	
89		C	F	1.8	0.1	—	—	
90		C	F	4.0	0.1	—	—	PO

LAW ASSOC / KENNEDY

PAGE # 515

M-214D-7

[illegible]

